Subject Description Form

Subject Code	COMP 5122		
Subject Title	E-Commerce Fundamentals and Development		
Credit Value	3		
Level	5		
Pre-requisite/Exclusion	Nil		
Objectives	The objectives of this subject are to:		
	1. Introduce the infrastructure and functional components for e- commerce:		
	 Enable students to understand the enabling technologies for e- commerce; 		
	3. Study various e-commerce applications.		
Intended Learning	Upon completion of the subject, students will be able to:		
Outcomes	a) acquire a good knowledge of a commerce and its applications:		
	a) acquire a good knowledge of e-commerce and its appreations,		
	c) be aware of trends of e-commerce: and		
	d) participate in team work presentation and technical writing		
Subject Supersia/	d) participate in team work, presentation and technical writing.		
Indicative Syllabus	 HyperText Transfer Protocol (HTTP). Load balancing. Caching. HyperText Mark up Language (HTML). Client-side programming. Server-side programming. Cryptography: Security requirements. Asymmetric key encryption. Symmetric key encryption. Message digest. Digital signature. Digital certificate. Public key infrastructure. Internet security: IPSec. Firewall. Secure Socket Layer (SSL) Protocol/Transport Layer Security. Application layer security. Internet payment systems: Secure electronic transaction (SET). Electronic cash. Electronic check. Micropayment methods. Smart card. E-commerce applications: Business models. Consumer- oriented e-commerce. Business-oriented e-commerce. Auction. Case studies and examples. Advanced/current topics: e.g., Mobile agent-based e- commerce, m-commerce. 		
Teaching/Learning Methodology	39 hours of class activities including lectures, tutorials, lab(s), workshop(s) and seminar(s) where applicable.		
Assessment Methods in			
Alignment with Intended	Specific Assessment % Intended subject		
Learning Outcomes	Methods/Tasks weighting learning outcomes		
	to be assessed		
	A soignments Tests &		
	Projects 55 5 V V V		
	Final Examination45✓✓		
	Total 100		

Student study effort	Class Contact:		
expected	Class activities (lectures, tutorials, lab(s))	39 hours	
	Other student study effort:		
	Self-study, assignments, project, exam	65 hours	
	Total student study effort	104 hours	
Reading list and	(1) Chan, H., Lee, R., Dillon, T. and Chang, E., 200	Chan, H., Lee, R., Dillon, T. and Chang, E., 2001,	
references	E-commerce: Fundamentals and Applications, John Wiley &		
	Sons (UK).		
	(2) Laudon, K.C. and Traver, C.G., E-commerce 2014, 10 th		
	Edition, Prentice Hall, 2013.		
	(3) Schneider, G., 2014, Electronic Commerce, Course		
	Technology.		
	(4) Stallings, W., 2013, Cryptography and Network	Stallings, W., 2013, Cryptography and Network Security:	
	Principles and Practice, 6 th Edition, Prentice Hall.		
	(5) Turban, E., et al., 2010, Electronic Commerce 2	Turban, E., et al., 2010, Electronic Commerce 2010 - A	
	Managerial Perspective, Prentice Hall.		