

1.	Course Title	Information Systems Development		
2.	Course Code	CICT3563		
3.	Status	Major		
4.	Credit Hour	3 (2+1) 2 for lecture (2 hours per week x 14 weeks) 1 for lab (1.5 hours per week x 14 weeks) using simulator & emulator supervised by tutor		
5.	Semester/Year	2/3		
6.	Prerequisites	CICT2513 Management Information System		
7.	Teaching method:	Distance Learning (Electronic)		
8.	Evaluation	Assessment and Marking Percentage: Participation 5% Quizzes 15% Project 15% Mid Sem Exam 15% Final Examination 50%		
9.	Lecturer			
10.	Objective of the Subject	Managing an information system require a skill as well systematic procedures. This course should help the student to develop rudimentary skills for building computer-based information systems from information needs analysis to hardware and software, using a systematic approach		
11.	Learning Outcomes	After completing this subject, it is expected that you will able to: • Explain the basic philosophy of information system development and use systems concepts to develop an understanding of an organizational problem. • Design a small system using an appropriate approach and describe the human and technical issues of computer-database environments (development, operation and administration). • Describe the security issues involved in system design and use basic statistical techniques relevant to decision-making. • Understand the basic components and application of knowledge-based systems		
12.	Synopsis	Information system requires skill as well systematic procedures. It also requires rudimentary skills for building computer-based information systems from information needs analysis to hardware and software, using a systematic approach.		
13.	Topics	Details	Lecture (Hrs)	Lab (Hrs)
	Topic 1	1. Introduction to IS vision - Trends in business management - The value of IS - The IS environment - The IS challenges	3	2
	Topic 2	2. Information & System Views - Information & computer System, - Control in System, - System in Management, - Multiple uses of Information, - The Requirements of Information. View of the Organisation: Human Resources and Information Processing, Management and Information Needs, Management Theories, Organization Structure and IS.	3	2
	Topic 3	3. Software For IS - Types of computer software; -Generations of Programming Languages: Low level, High-level; Personal Computer Business Software; - Transaction Processing Procedure: Data collection, Editing, Processing, Reporting; - Input Validation Technique; Database Management;	3	2

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		- Data Communication		
	Topic 4	4.The Transaction Processing System - The Transaction Processing Sequences, - Data Capture, Transaction Processing, File Maintenance, Reporting; - Common Transaction System: General Ledger, Payroll System, - Point-of-sale; -Specialized Transaction Processing system: The Airline System, - The Automatic Teller System, - Retail Operation, - The Health Care Industry.	3	3
	Topic 5	5. Management Information System (MIS) - A management framework; - An Overview of MIS: - Inputs to MIS, - Outputs of MIS, - Reports of MIS, - Managing IS for Competitive Advantage; - The Functional Aspect of MIS; - MIS Applications: - A Financial MIS, - A Marketing MIS, - Accounting MIS, -Personnel MIS.	4	3
	Topic 6	6. Decision Support System (DSS) - An Overview of DSS: - Characteristic of DSS, - Capabilities of DSS, - Type of DSS; - Component of DSS: - The Model Base, - The Advantage and Disadvantages of Modeling; - The Group Decision support system (GDSS): Configuration, Capabilities, Alternatives; - The Executive Support System (ESS): Decision Affected by an ESS, - Characteristic, - Goals of a Strategic ESS; - DSS Development.	2	3
	Topic 7	7.Artificial Intelligent & Expert System - An Overview: Components and Application of AI and ES.	3	2
	Topic 8	8.System Development - An Overview: Factors of Successful System Development, - Potential Problems for System Development, - Developing a Competitive Advantage; - Participants in System Development; - Managing Change; -Information System Planning: The Importance, - Advantages, - The Steps Involved, - Level of Information system Planning; - System Development Steps; - Traditional vs. Prototyping Approaches.	3	2
	Topic 9	9. System Development Steps, Tools & Issues - Vendor Support, - Data Gathering, - Generating system Development Alternatives, - Cost-benefit analysis, - Investigation,	4	2

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		- Analysis, Design, - Acquisition, - Implementing, - Maintenance, - Review; - Tools & Techniques; - End-user Computing & Tools.		
		Total contact hours	28	21
		Equivalent lecture hours	28	14
		Total lecture hours	42	
		Credit hours	3	
14.	Main reference:	Ralph M. Stair, Principles of Information System.. Thomson Learning, 2009		
15	Additional References: Other Materials:	1. Laudon, Kenneth C. and Laudon, Jane P. Management Information Systems: Managing the Digital Firm& Multimedia Student CD Package. 10th edition. 2007. Pearson Education. 2. Management Information Systems, Sixth Edition by Effy Oz (Jan 23, 2008) 3. Nickerson,Robert C. Business and Information Systems. 2nd edition. 2001. Prentice Hall. 4. Gupta, Uma G. Information Systems: Success in the 21st . 2000. Century. Prentice Hall. 5. Mcleod Jr., Raymond and Schell, George. Management Information Systems. 8th ed. 2001 Prentice Hall All other materials will be available to students online.		