

1.	Course Title	System Analysis and Design		
2.	Course Code	CCPS1033		
3.	Status	Faculty		
4.	Credit Hour	Credit hour: 3 (2+1) 2 for lecture (2 hours per week x 14 weeks) 1 for tutorial (1.5 hours per week x 14 weeks) and for lab (2 hours per week)		
5.	Semester/Year	2/2		
6.	Prerequisites	Nill		
7.	Teaching method:	Lecture and lab		
8.	Evaluation	Assessment and Marking Percentage: Quizzes 10 % Assignments 10 % Interactions through discussion board 10 % Mid-Semester Exam 20 % Final Examination 50 %		
9.	Lecturer			
10.	Objective of the Subject	This subject is designed to enable students to: - Identify and describe the roles of a system analyst in information system development. - Identify problem, opportunity, cause, effect and business requirements for a given problem situation and propose solutions in the form of CBIS. - Distinguish logical versus physical models and translate these models into physical design models using tools. - Evaluate and suggest simple architectural design decisions given a problem scenario.		
11.	Learning Outcomes	Upon completion of this subject, students should be able to: - Choose the correct methodology to develop different types of systems. - Identify, distinguish, and differentiate the stages of System Development Life Cycle. - Plan, analyze, design and develop a new simple system from scratch. - Handle the software development tools like CASE and RAD		
12.	Synopsis	This subject provides a methodical approach to developing computer-based information systems (CBIS) including systems planning, analysis, design, testing, implementation and maintenance. Emphasis is on the strategies and techniques of systems analysis and design for producing logical models for dealing with complexity in the development of information systems. The course approaches the development of information systems from a problem-solving perspective.		
13.	Topics	Details	Lecture (Hrs)	Lab/Tutorial (Hrs)
	Topic 1	The Information the Systems Development Environment.	2	1.5
	Topic 2	Systems Development Life Cycle.MS Access Database Window	2	1.5
	Topic 3	Systems Analysis: Overview / User Requirements.	2	1.5
	Topic 4	Modeling System Requirements with Use Cases Query	2	1.5
	Topic 5	Data Modeling and Analysis	2	1.5
	Topic 6	Process Modeling.	2	1.5
	Topic 7	Object-Oriented Analysis and Modeling Using the UML.	2	1.5
	Topic 8	Feasibility Analysis and the System Proposal.	2	1.5
	Topic 9	Information System Project Management.	2	1.5

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	Topic 10	System Design: Application Architecture and Modeling.	2	1.5
	Topic 11	Database Design.	2	1.5
	Topic 12	Input / Output Design & User Interface Design.	2	1.5
	Topic 13	Object-Oriented Design and Modeling Using the UML.	2	1.5
	Topic 14	Systems Construction and Implementation.	2	1.5
		Total contact hours	28	21
		Equivalent lecture hours	28	14
		Total lecture hours	42	
		Credit hours	3	
14.	Main reference:	Whitten and Bentley (2007), Systems Analysis and Design Methods , 7th Edition. McGraw-Hill Irwin.		
15	Additional References:	1. Hoffer, J. A., George, J. F., and Valacich, J. S. (2007). Modern Systems Analysis and Design, 5th ed. Upper Saddle River, NJ: Prentice Hall. 2. Kendall, K.E. and Kendall, J.E. (2004). Systems Analysis and Design, 6th ed. Upper Saddle River, NJ: Prentice Hall.		
	Other Materials:	All other materials will be available to students online.		