

1.	Course Title	System Analysis & Design		
2.	Course Code	CCPS2533		
3.	Status	Faculty		
4.	Credit Hour	3 (2+1) 2 lecture (2 hours lecture x 14 weeks) 1 tutorials (1.5 hours per x 14 weeks) using simulator & emulator supervised by tutor		
5.	Semester/Year	2/2		
6.	Prerequisites	CCPS1533 Database Management 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	To provide students with concepts and skills needed to analyze and design information systems covering major steps of a complete system development life cycle.		
11.	Learning Outcomes	By the end of the 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, analyse, design and develop a new system from scratch. - Handle the software development tools like CASE and RAD		
12.	Synopsis	This course develops a systematic understanding on the concepts and practicalities of the information systems development process, with an emphasis on object oriented approach. The latest analysis requirements and design specification methods are given detailed coverage. The course will prepare the students to solve information system development problems in organizations.		
13.	Topics	Details	Lecture (Hrs)	Tutorial (Hrs)
	Topic 1	Course Introduction - Introduction to System Analysis - The system development environment - Systems Development Life Cycle - Strategy and planning, systems - analysis, logical design, physical design - Implementation and maintenance.	4	3
	Topic 2	System Development Techniques and Methodologies Process modeling, function decomposition diagramming, Entity-Relationship diagramming, data flow diagramming, and procedure modeling.	12	9
	Topic 3	Design and layout of: Forms, screens, dialogues, and report	4	3
	Topic 4	Integrated Computer-Aided Software Engineering (CASE) tool A standard development environment to support the entire system development life cycle. It is recommended that Oracle	4	3

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		Designer/2000 be used for this purpose		
	Topic 5	Rapid Application Development (RAD) tool To enhance and visualize the delivered concepts and techniques. It is recommended that RAD tools such as Power Builder, Power Objects, Visual Basic, IntraBuilder, or C++ Builder be used for this purpose.	4	3
		Total contact hours	28	21
		Equivalent lecture hours	28	14
		Total lecture hours	42	
		Credit hours	3	
14.	Main reference: Textbook:	Jeffrey A. Hoffer, Joey F George, and Joseph S Valacich, Modern Systems Analysis and Design (5th Edition) (2007)		
15.	Additional References:	1. Dennis, A., Wixom, B.H., & Roth, R.M. (2006). Systems Analysis & Design (3rd ed.). USA: John Wiley & Sons, Inc. 2. Dennis, A., Wixom, B.H., & Tegarden, D. (2005). Systems Analysis & Design with UML Version 2.0 (2nd ed.). USA: John Wiley & Sons, Inc. 3. Kendall, K.E., & Kendall, J.E. (2005). Systems Analysis and Design (6th ed.). Upper-Saddle River, NJ: Prentice-Hall.		
	Other Materials:	All materials will be available to the students online.		