Al Imam Mohammad ibn Saud Islamic University
College of Computer and Information Sciences

Information Systems Department

Course Syllabus

IS335 - System Analysis and Design

Catalog Description:	The aim of the course is to introduce the fundamental principles of system analysis and design approaches for modeling software requirements and design for any IS/IT Project. In order to enforce understanding of the subject, practical examples and case-studies will also be taught.
Credit Hours:	**4 Credit hours:** 4 Lectures per week 0 Labs. per week 0 Recitation per week
Prerequisites:	IS220 - Introduction to Database

Course Learning Outcomes:

1. Describe the role of analysis and design in Software engineering along with related issues.
2. Design a system by applying principles and methodology of Object Oriented design
3. Apply most of the analysis and design techniques at intermediate level
4. Evaluate analysis and design of an information system on the basis of different criteria
5. Function effectively on teams to accomplish a common goal.
6. Present a topic in a compelling manner.
7. Take responsibility for their own learning and continuing personal and professional development.

Major Topics:

- Introduction to Systems Analysis & Design
- Use Case Analysis
- Process Modelling
- Data Modelling
- Behavioural Modelling
- System Design
- Architecture Design
- User Interface Design
- Implementation Issues
- Project Discussions

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Text Books: Systems Analysis and Design with UML Version 2.0: An Object-Oriented Approach, 4th edition, Alan Dennis, Barbara Haley Wixom and David Tegarden, John Wiley & Sons, Inc., 2012. ISBN-13: 978-1118037423/ISBN-10: 1118037421

Grading:

◉ The grading scale for this course is:

95 - 100	A+	Passing
90 - 94	A	Passing
85 - 89	B+	Passing
80 - 84	B	Passing
75 - 79	C+	Passing
70 - 74	C	Passing
65 - 69	D+	Passing
60 - 64	D	Passing
0 - 59	F	Failing

◉ Final grades will be determined based on the following components:
  . 60% Semester Work
  . 40% Final Exam

◉ Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.

◉ Late submissions will not be accepted for any graded activity for any reason.

◉ Students have one week to request the re-grading of any semester work.

Attendance Policy: Students should attend 80% of the overall course hours taught in the semester as per the University regulations.

If a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded "DN" grade and repeat the course.

Cheating and Plagiarism Policy: The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.

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When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.

Communications: Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.