**King Saud University**

**College of Applied Studies &Community Services**

**Program: Natural & Engineering Sciences Program (NESP)**

**First Semester: 1438/ 1439**

**System Analysis and design CT1312**

**Instructor**: Safa'a AlBasaam

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**Office**: Building 26 Room 3

**Office hours:** Sunday (11-12), Tuesday (11-12)

**Course Objectives:**

Students are introduced to System analysis and design methodologies; Analysis and design forms; System analysis and design phases; Details of the analysis and design phases; Testing phase; Quality assurance; Case studies.

**Text Book:**

Modern Systems Analysis and Design ,

Joseph S. Valacich  
Joey F. George  
Jeffrey A. Hoffer

**Reference:**

Slides, lecture notes and the text book

**Assessment Plan for the Course:**

**Mid1**  20%

**Mid2** 20%

**Assignments and quizzes** 20%

**Final**  40%

**Course Topics:**

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| **Week#** | **Topic** |
| 1 | *Introduction* |
| 2 | *The Systems Development Environment* |
| 3 | Succeeding as a Systems Analyst |
| 4 | Succeeding as a Systems Analyst |
| 5 | *Managing the Information Systems Project* |
| 6 | *Automated Tools for Systems Development*  **Midterm Exam 1** |
| 7 | *Identifying and Selecting Systems Development Projects* |
| 8 | Determining System Requirements |
| 9 | *Structuring System Requirements:*  *Process Modeling* |
| 10 | *Structuring System Requirements:*  *Logic Modeling* |
| 11 | *Structuring System Requirements:*  *Conceptual Data Modeling* |
| 12 | *Selecting the Best Alternative Design Strategy*  **Midterm Exam 2** |
| 13 | DFD |

**Notes:**

* Late assignment submission will be not accepted.
* Students are encouraged to discuss assignments but not copy.
* If you miss an assignment, you will get on a zero.
* Missed Midterm exams can be made up in cases of extreme circumstances and it covers all chapters.
* Attendance is very important if you absent more than 25% you will be forbidden to enter the final exam.