**Jubail University College**



**Department of Business Administration**

**COURSE SYLLABUS - SEMESTER 341**

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| **Course Code & Number** | MIS 202 | | | |
| **Course Title** | Business Systems Analysis and Design I | | | |
| **Instructor** | Ms.Ghadah Al-Khayyat | | | |
| **Office Location** | 423 | | | |
| **Office Hours** | **Day** | **Period** | | |
| Sunday | 3 | | |
| Monday | 3,4 | | |
| Tuesday | 6 | | |
| Wednesday | 5,7 | | |
| Thursday | 3,4,5 | | |
| **Instructor’s Office Phone** | 03-3459000 Extension:3667 | | | |
| **Instructor’s Email** | Khayatg@ucj.edu.sa  ghadah\_fk@yahoo.com | | | |
| **Section numbers** | **201 202** | | | |
| **Class hours** | **Day** | **Period** | | |
| Sunday |  | 1,2 |  |
| Monday |  |  |  |
|  | Tuesday | 7 |  |  |
|  | Wednesday |  |  |  |
|  | Thursday | 1,2 | 8 |  |
| **Prerequisites** | MIS102 principles of MIS | | | |
| **Course Rationale** | Upon successful completion of this course, students should be able to demonstrate knowledge of analysing phases in the Systems Development Lifecycle using the traditional and object oriented approach. They will be able to apply this knowledge efficiently for basic systems analysis and design tools; data dictionary, data flow diagrams, process specifications, entity-relationship diagrams and CASE tools; recognize front-end phases of SDLC. | | | |
| **Course Objectives** | By the end of the course, student should be able to:   1. Identify the system development life cycle 2. Distinguish activities of each SDLC “Phase” 3. Define the role of an information analyst 4. State the required skills of the system analyst 5. Explain the two approaches to system development 6. Analyze the business problems and requirements. 7. Evaluate many solutions to choose the best 8. Solve the business problems by information systems’ solutions 9. Use Gantt chart to do project planning schedule 10. Model the system requirements by traditional approach, using the context diagram and the data flow diagram 11. Illustrate the system requirements by object-oriented approach, using the use case diagram, activity diagram and System Sequence Diagram. 12. Use different techniques for information gathering | | | |
| **Methods of Instruction** | Lectures, assignments, group work, and class Q&A | | | |
| **Required Textbook** | Introduction to Systems Analysis and design by Stephen D. Burd, Robert Jackson and John W. Satzinger, 6th Edition, Course Technology. | | | |
| **Grading Scheme** | Quizzes : 20%  Assignments : 20%  Mid Term Exam : 20%  Final Exam : 40%  Total : **100%** | | | |

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| **Jubail University College Grading Scale** | | | |
| **Total Points** | **Letter Grade** | **Percentage** | **Grade Point** |
|  | A+ | 95-100% | 4.0 |
|  | A | 90-<95% | 3.75 |
|  | B+ | 85-<90% | 3.5 |
|  | B | 80-<85% | 3.0 |
|  | C+ | 75-<80% | 2.5 |
|  | C | 70-<75% | 2.0 |
|  | D+ | 65-<70% | 1.5 |
|  | D | 60-<65% | 1.0 |
|  | F | 0-<60% | 0.0 |
|  | W | Withdrawal | N/A |
|  | WP | Withdrawal while Pass | N/A |
|  | WF | Withdrawal while Fail | 0.0 |
|  | DN | Denial | 0.0 |
|  | I | Incomplete | N/A |
|  | P | Pass | N/A |

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| **Course Outline** | | |
| **Week** | **Topics & Activities** | **Notes** |
| 1 | **Chapter 1**  **From Beginning to End: An Overview of Systems**  **Analysis and Design**   * Basic concepts that are needed to understand systems development. * The first few sections define Systems Analysis * Systems Design * the Systems Development Life Cycle (SDLC) * iterative development * Agile development and the six core processes of systems development. |  |
| 2 | **Chapter 2**  **Investigating System Requirements**   * Discover and understand the details of the problem and the need * The activities of systems analysis, |  |
| 3 | * functional and nonfunctional requirements * the role of models in systems analysis. |  |
| 4 | **Chapter 3**  **Use Cases**   * Identifying use cases * techniques for identifying use cases * applying the user goal technique and event decomposition technique to identify use cases |  |
| 5 | * Applying the CRUD technique to validate and refine the list of use cases * The use case diagram. | **Quiz 1**  **Sunday**  **Period 8** |
| 6 | **Chapter 4**  **Domain Modelling**   * The concept of “things” in the problem domain * Identifying and analyzing data entities and domain classes needed in the system. |  |
| 7 | * Reading, interpreting, and creating an entity-relationship diagram. |  |
| 8 | **Mid-term Examination** |  |
| 9 | **Chapter 5**  **Extending the Requirements Models**   * Fully developed use case descriptions * activity diagrams to model flow of activities * system sequence diagrams, |  |
| 10 | * state machine diagrams to model object behavior. * How use case descriptions and UML diagrams work together to define functional requirements. |  |
| 11 | **Chapter 8**  **Approaches to Systems Development**   * The underlying assumptions and uses of a predictive and an adaptive system * development life cycle (SDLC) * activities and tasks of information system support * system development methodology—the SDLC as well as model tools and techniques |  |
| 12 | * approaches used for software construction and modeling: the * structured approach and the object-oriented approach * the key features of Agile development | **Quiz 2**  **Sunday**  **Period 8** |
| 13 | **Chapter 9**  **Project Planning and Project management**   * The factors that cause a software development project to succeed or fail * the responsibilities of a project manager |  |
| 14 | * he knowledge areas in the project management body of knowledge (PMBOK) * the Agile approach to the project management knowledge areas |  |
| 15 | * the activities required to get a project approved (Core Process 1) * the activities required to plan and monitor a project (Core Process 2) |  |
| 16 | **Review** |  |
| 17,18,19 | **Final exams** |  |

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| **Jubail University College Policies** | |
| **Attendance** | 1. Attending at punctual time: Present otherwise the student is absent.  2. Late attendance 0 − < 5 minutes: is late  3. Late ≥ 5 minutes: is absent  Notes:   1. Every 3 late are counted as 1 absent 2. Every × total semester contact hours + 1 is DN |
| **Grading** | 1. Quality point: is the result of multiplying the credit hours by the grading points. 2. Semester GPA: is the result of dividing total quality points achieved in all courses at that semester by total graded credit hours of all courses in that semester. 3. Cumulative GPA in a semester: is the sum of total quality points achieved in all courses up to that semester divided by the total credit hours graded for all courses up to that semester |
| **Plagiarism & Cheating** | 1. Cheating is a serious offence and will be punished by the JUC.  2. Talking, looking at your colleagues’ exam papers or any other suspicious act is considered cheating during exam.  3. Student will fail the subject if caught cheating.  4. Copying assignments as it is from other student and web sites is also considered as cheating and no credit / marks will be given to the students. |