**Jubail University College**



**Department of Business Administration**

**COURSE SYLLABUS – SEMESTER 341**

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| **Course Code & Number** | MIS 203 | | | |
| **Course Title**  **Skill** | Business Data Management | | | |
| **Instructor** | Malak Saleh AL-Ruqaie | | | |
| **Office Location** | 423 | | | |
| **Office Hours** | **Day** | **Period** | | |
| Sunday | 3,4,5,6 | | |
| Monday | 6 | | |
| Tuesday | 1,2,3,6 | | |
| Wednesday | 6 | | |
| Thursday | - | | |
| **Instructor’s Office Phone** | 03-3459000 Extension: 3661 | | | |
| **Instructor’s Email** | ruqaiem@ucj.edu.sa | | | |
| **Personal webpage** | <http://ruqaiem.weebly.com> | | | |
| **Section numbers** | **201** | |
| **Class hours** | **Day** | **Period** | | |
| **201** | | **202** |
| Sunday | 1,2 | |  |
| Monday | 3 | |  |
| Tuesday |  | |  |
| Wednesday |  | |  |
| Thursday |  | | 1,2,3 |
| **Prerequisites** | Cs 202 | | | |
| **Course Rationale** | This course discusses about the concept and theory of database and DBMS, normalization, database modeling and design, database management and SQL. It also includes topic on business intelligence (BI) systems which discuss about the data management for data warehouses and data marts. | | | |
| **Course Objectives** | * Explain the concept and theory of database, its components, applications and history. * Draw and model the database using ER diagram. * Transform data models into database design. * Write SQL statements to create, to delete and to update data in the database. * Explain the management of multiuser organizational databases. * Address the various standards for accessing databases. * Discuss business intelligence (BI) systems in general. | | | |
| **Methods of Instruction** | Lectures | | | |
| **Required Textbook** | **Database Principles Fundementals of Design, Implementation and Managment:** 2011. 10th Edition. Carlos Coronel; Steven Morris et al | | | |
| **Proposed Websites** | www.cengage.com | | | |
| **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 | **The Database Approach**  **Chapter 1** | * Why Databases? * Data vs. Information * Why database design is important? * Evolution of file system data processing |
| 2 | **The Database Approach**  **Chapter 1** | * Problems with file system data processing * Database systems |
| 3 | **Database Development Process**  **Chapter 2** | * Information systems in general * Systems Development Life Cycle * Database Development Life Cycle |
| 4  **Quiz 1** | **Database Development Process**  **Chapter 2** | * Top-down vs. bottom-up database design * centralized vs. decentralized architectures. |
| 5 | **Data Models**  **Chapter 3** | * Data modeling and data models * The importance of data models * Data model basic building blocks * Business rules |
| 6 | **Data Models**  **Chapter 3** | * The evolution of data models * Degrees of data abstraction |
| 7 | **Relational Model Characteristics**  **Chapter 4** | * A logical view of data * Keys * Integrity rules * Relational set operators |
| 8 | **MID TERM EXAM** |  |
| 9 | **Relational Model Characteristics**  **Chapter 4** | * The data dictionary and the system catalog * Relationships within the relational database * Data Redundancy revisited * Indexes * Codd’s relational database rules |
| 10 | **Data Modeling with Entity Relationship Diagram**  **Chapter 7** | * The Entity Relationship Model (ERM) |
| 11 | **Data Modeling with Entity Relationship Diagram**  **Chapter 7** | * Developing an ER diagram * Database design challenges |
| 12  **Quiz 2** | **Beginning Structured Query Language (SQL)**  **Chapter 5** | * Introduction to SQL * Data definition commands |
| 13 | **Beginning Structured Query Language (SQL)**  **(SQL)**  **Chapter 5** | * Data manipulation commands * SELECT queries |
| 14 | **Beginning Structured Query Language (SQL)**  **(SQL)**  **Chapter 5** | * Additional data definition commands * Additional SELECT query keywords * Joining database tables |
| 15 | **Database Administration and Security**  **Chapter 12** | * Data as corporate asset * The need for database and its role in organization * Introduction of database * The evolution of database administration |
| 16 | **Database Administration and Security**  **Chapter 12** | * Database Environments’ human component * Security * Database administration tools * Developing a data administration strategy |
| 17 | **Practical Final Exam** |  |
| 18 | **Theoretical Final Exam** |  |
| 19 | **Theoretical Final Exam** |  |

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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. |