***King Saud University***

***College of Business Administration***

***Management Information Systems Department***

***Introduction to Databases- MIS 214***

***Course Syllabus 1ST Semester 2018/2019***

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| ***Instructor:*** |  |
| ***Office*** | *2nd floor, No 139* |
| ***Office Hours:*** | *1,2,5 (9-10)* |
| ***Email*** | *Lhajr@ksu.edu.sa* |
| ***Website*** | *http://fac.ksu.edu.sa/lhajr/home* |
| ***Lecture timetable*** | *3 lectures a week (Refer to your schedule for time and location)* |
| ***Lab timetable*** | *2 hours practical session in the lab (Refer to your schedule)* |

***Course Information***

***Course title :*** *Introduction to Databases*

***Course number :****MIS 214*

***Credit hours : 3***

***Prerequisite(s):*** *Management Information Systems – MIS 201*

***Course description:***

*Students will gain understanding and practical experience with database systems and their main roles in organizations. Students will be trained to conduct data analysis, database modeling, and database implementation using a suitable database management system. The course will focus on the relational databases, conceptual data models, e.g., Entity Relationship Models (ERM), database query and manipulation languages, e.g., Structured Query Language (SQL), normalization and its main role in database design, and security aspects in database systems.*

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| ***course references:*** |
| 1. *Database Systems: A Practical Approach to Design, Implementation and Management.” Thomas Connolly, Carolyn Begg. 5th Edition, Addison-Wesley, 2009* 2. *Fundamentals of Database Systems", Ramez Elmasri, Shamkant B. Navathe, Addison Wesley, The Latest Edition.* 3. *MODERN DATABASE MANAGEMENT",by Jeffrey A. Hoffer, Mary B. Prescott, Fred R. McFadden, Prentice Hall, The Latest Edition.* 4. *DATABASE MANAGEMENT SYSTEMS", by Raghu Ramakrishnan, JohannesGehrke, The Latest Edition.* |

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| ***Course Requirements*** | |
| * + *First Midterm Exam*   + *Second Midterm Exam*   + *Group Project*   + *Assignment /Quizzes*   + *Final* | * + *20%*   + *20%*   + *10%*   + *10%*   + *40%* | |

***Course Outline:***

* + *Database Systems Principles*
  + *Entity Relationship (ER) Modeling*
  + *Data Modeling*
  + *Data Manipulation language (SQL)*
  + *Data definition language*
  + *Normalization of Database Tables*

***Course Outline:***

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| **Week** | **Chapter** | **Description** |
| Weeks 1 | Chapter 1 | **Introduction to Databases** |
| Weeks 2,3 | Chapter 2 | **Database Environment** |
| Week 4,5,6 | Chapter 12,13 | **Entity-Relationship Modeling & Enhanced Entity-Relationship Modeling** |
| Weeks 6,7, | Chapter4,17 | **The Relational Model** |
| Weeks 8 | Chapter 6 | **SQL – Data Manipulation** |
| Weeks9,10,11 | Chapter 7 | **SQL – Data definition** |
| Week 12,13 | Chapter 14 | **Normalization** |

***Policies***

* + *No makeup for Midterm exams unless you submit original papers that are stamped and accepted from head of Department. You should submit your excuse no more than one week after the exam. If your excuse is accepted, you will be allowed to enter a comprehensive exam at the end of this semester.*
  + *Your homework is not accepted after the due date.*
  + *Each student is expected to do her own work on all of the course material. The penalty for cheating is a grade of zero.*
  + *Attendance will be taken by the end of the class. If you are absent for a reason it is your responsibility to submit your sick leave by the next class*
  + *Mobile is not allowed to be used in the class at all. Therefore, please keep it off during class time.*
  + You are not allowed to attend the final exam if you absent more than 13 hours and you will be considered as denied, a first probation will be issued if you reach 5 hours of absence and the second probation will be issued if you reach 9 hours of absence.