KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
COLLEGE OF INDUSTRIAL MANAGEMENT

Department of Accounting & Management Information Systems
Dhahran, Saudi Arabia

MIS 311 – Business Data Management (061)

Instructor	Phone No	Location	E-mail
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Class Times: Section 01 UT 8:30-9:45 am and Section 02 10:00-11:15 am

Office Hours: UT 2:30 - 4:00 pm

Course Objectives

After completing this course successfully, students should:
1. Be able to explain the advantages and disadvantages of the database as opposed to the traditional file approach to data processing.
2. Have a good understanding of the terminologies and concepts associated with DBMS.
3. Have a good understanding of the various kinds of databases and the support they provide to different levels of management.
4. Be able to undertake and successfully complete logical database design tasks.
5. Be able to use SQL with confidence to implement a relational database, and to maintain and access data in relational databases using SQL.
6. Have a good understanding of the concepts associated with transaction management and concurrency control
7. Have an understanding of issues related to database planning, database administration, and roles of the Data Base Administrator.

Textbook: Rob, P. & Coronel, C., Database Systems: Design, Implementation and Management, published by Course Technology, Sixth Edition, 2003.

Course Website: http://webcourses.kfupm.edu.sa

Assessment:

Item	%
First Major Exam	10
Second Major Exam (10% on theoretical concepts and 10% on SQL)	20
Group Project	10
Online Discussion Questions	10
Two Practical Quizzes	10
Class work (small quizzes and problem solving)	10
Final Exam	30
Total	100

Course Teaching Plan of Learning Activities and Assessment:

Learning Goal	Learning Activities	Assessment	Grade %
Fundamental Knowledge: students will learn the concepts of business data management as shown in the learning objectives	Lectures and reading text book, reading online handouts and notes	In class minute paper (writing a summary paper to answer review questions), online discussion questions, and exams	**5+5+45**
Application: students will be able to apply the learnt concepts of business data management to solve real life problems/cases of information systems nature in business context	Class practice on problem solving and critical thinking, homework practical assignments, and Laboratory practice	Two practical quizzes and in class problem solving exercises, and SQL test	**10+10+10**
Human Side: students will be able to work in team work environment	In class group practice and off class group project	Group project assignment	**5**
Integration: students will be able to relate with each other the various topics and concepts of business data management such as systems relational model and SQL	Class discussion of questions on the relationships between the topics components of the course materials	In class minute paper writing to answer a discussion question	**3**
Learn how to learn (self learning): students will have the ability to learn new and advanced concepts of data management after the course is finished	Demonstration of how to learn new concepts or new skills such as reading new books, search the internet, reading technical magazines, news papers and group discussion	Homework essay paper writing of newly learnt knowledge related to the course materials	**5**
Caring: students will be able to value the importance of data management in business	Class discussion	In class minute paper writing to answer a discussion question	**2**
		Total	**100**

The above course plan is based on Dr. Fink's significant learning taxonomy of designing courses which promotes more students' interaction in the teaching process in order to maximize students' learning. Dr. Fink is the director of the Instructional Development Program, University of Oklahoma, and the president of the Professional Organizational Development Network in Higher Education USA.

Reference: Creating Significant Learning Experiences: An Integrated Approach To Designing College Courses, San Francisco: Jossey-Bass, 2003.

i. Course Policy:

1. The course will be implemented in hybrid mode. That is the course will be delivered partly face to face and partly online.

2. Issues discussed in the <u>textbooks, assignments, and online course materials</u> are subject to be in the quizzes/exams. No make up exams will be given.

3. All reading assignments (chapters and handouts) are to be read prior to class on the day they are assigned. You are expected to participate actively in the discussions in the classes and online discussion topics.

4. <u>Assignments/Projects must be submitted on the due date.</u>

   - Completed assignments should be uploaded from the WebCT environment.

   - Assignments or projects must be done by using appropriate package (like MS Word processor, CASE, and MS ACCESS tools) and be submitted on the due date. You must only use 12 points font in writing your assignments on the word processor. You must always endeavor to provide a complete and satisfactory solution, but if you are unable to do so, at least deliver the work you have managed to complete on time. No late submissions will be accepted.

   - A lower grade will be the consequence of failing to make the deliveries. Whilst you may discuss with your colleagues in answering the assignment, the final submission must be your own effort. You will receive extremely little or no assistance from the instructor for completing the assignments.

   - ***Cheating*** will result in an "F" grade in the course, and further disciplinary action will be pursued.

5. Class Attendance
   - According to the University regulations all students are expected to attend each and every class and laboratory sessions. **Exceeding the limit of unexcused absences will result in a DN grade in the course.** For details, refer to the Undergraduate Bulletin.
   - The course include a series of Laboratory sessions on SQL

ii. Students' Role:

In the online course, students' role and their study habits will be different in the sense they will be doing self-reading and try to understand the given contents by themselves with little explanation help from the instructor side. In this way, they will be more self-dependent cognitively.

iii. Instructor's Role:

The instructor role will be as a facilitator, in that he gives guidance, directions, answer students' questions, initiate online discussion topics.

iv. WebCT Implementation:

The following information will be provided to the students through WebCT environment.

- Course Syllabus
- Course Calendar
- Conceptual Units
- Practical Lessons
- Practical Videos
- Practice Quizzes and Review Questions
- Communications Tools
- Grades & Progress
- Announcements
- Assignments
- Glossary
- Help Center

v. Study Guidelines:

Students are required to go through the material provided to them on WebCT regularly and refer to the textbook. The practice quizzes, review questions, online discussions will enhance students' understanding of the course materials. The practical units will consist of some hands-on video sessions which are provided on the WebCT. The weekly study guide is given in the course schedule in Section vii. The following study guidelines can be helpful in a successful coverage of the course.

- Carefully follow the course syllabus of the MIS311 Online Course designed by the course instructor.

- Use the WebCT tool to access the units of the course.

- Read the conceptual units and then answer the concept check questions and the given units' quizzes online. Answering the concept check questions and the units' quizzes help increase understanding and memorization of the units details.

- Read the concepts of the practical units, and to increase understanding and memorization of the units details go through the given demonstrations and solved exercises, and then work out the unsolved exercises.

- Attend all quizzes, practical tests, and examinations scheduled by the course instructor. Participate in class paper writing and online discussion topics. The assessment and learning activities are designed to increase your knowledge and skills of the course materials.

vi.   Course Exam Dates:
- Final Exam   Saturday 7:30 AM, January 20, 2007

vii.   Course Schedule:

Week Beginning	Topics Covered & Learning Activities	Readings
Sept 10	Course Overview & Introduction to DBMS and File System (Class work paper writing and problem solving) & online discussion topic	Chapter 1 & concept unit 1
Sept 17	Data Models (Paper writing) & online discussion topic	Chapter 2 & concept unit 2
Sept 24	Relational Model & online discussion topic	Chapter 3 & concept unit 3
Oct 3	Relational Model (Class work paper writing and problem solving) & online discussion topic	Chapter 3 & concept unit 3
Oct 5,	**Practical Quiz #1 on chapters one and three problems**	
Oct 8	SQL (lecture and Lab Practice) **Self learning assignment available online**	Chapter 6 & concept unit 6
Oct 9, Monday	**First Major Exam from 8:30 - 10:15PM in Room OAB**	**Chapters 1, 2, and 3**
Oct 12 - Oct 27	**Ramadan Holiday**	
Oct 29	SQL (lecture and Lab Practice) **Group project available online**	Chapter 6 & concept unit 6
Nov 5	SQL and Advanced SQL (lecture and Lab Practice)	Chapter 7 & concept unit 7
Nov 12	SQL and Advanced SQL (lecture) **Self learning assignment Due**	Chapter 7 & concept unit 7
Nov 19	Database Design (ER Modeling) (Class work paper writing and problem solving)	Chapter 4 & concept unit 4
Nov 26	Database Design (ER Modeling) (Class work paper writing and problem solving)	Chapter 4 & concept unit 4
Dec 3	Database Design (Data Normalization) (Class work paper writing and problem solving)	Chapter 5 & concept unit 5
Dec 5, Tuesday	**Practical Quiz #2 on ER Modeling and Database Design**	

Dec 9, Saturday	Second Major Exam from 8:30 - 10:15 PM in Room OAB	Chapters 6 & 7
Dec 10	Database Design and DB life cycle (paper writing) & online discussion topic	Chapter 8 & concept unit 8
Dec 17	Transaction Management & Concurrency Control (paper writing) & online discussion topic	Chapter 9 & concept unit 9
Dec 21 – Jan 5	Id Al-Adhaha Holiday	
Jan.7 2007	Database Administration (paper writing) & online discussion topic	Chapter 15 & concept unit 10
Jan 9	Group project Due	
Jan 14	Database Administration	Chapter 15 & concept unit 10
20 Jan – 30 Jan	Final Exams	Chapters 4, 5, 8, 9 , and 15