

KINGDOM OF SAUDI ARABIA

***THE NATIONAL COMMISSION FOR ACADEMIC
ACCREDITATION & ASSESSMENT***

COURSE SPECIFICATION

HASEB 233

Revised March 2007

Course Specification

For Guidance on the completion of this template, please refer to of Handbook 2 Internal Quality Assurance Arrangements

Institution	Almajmaah University
College/Department	Al-Majma'ah Community College / Department of Natural and Applied Sciences

A Course Identification and General Information

1. Course title and code: LAB of Managing Database Systems (Haseb 233)
2. Credit hours: 3 hours
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) Computer Science Major / Qualification Program
4. Name of faculty member responsible for the course Mr. Mohammad Fayeze Aabed
5. Level/year at which this course is offered : 3rd Level
6. Pre-requisites for this course (if any) Fundamentals of Database Systems (Haseb 124)
7. Co-requisites for this course (if any) N/A
8. Location if not on main campus Community College at Al-Majma'a / Class: 2-A-2 / LAB: 8-A-1

B Objectives

<p>1. Summary of the main learning outcomes for students enrolled in the course.</p> <ul style="list-style-type: none">- Learning the creation procedure for a Database using Oracle Database Management System.- Gaining the skills of entering mechanism for data to the created database, and how could be processed by SQL language Commands.- Understanding the basics for commands of PL/SQL Database-programming language.
<p>2. Briefly describe any plans for developing and improving the course that are being implemented. (eg increased use of IT or web based reference material, changes in content as a result of new research in the field)</p> <p>This Course is one of the frequently revised courses by committee of study's scheduling and planning to ensure its follow-up to the up-to-date development in its related major, from the following aspects:</p> <ul style="list-style-type: none">1- Using up-to-date topic-related references2- Revising scientific achievements that are related to course field.3- Keeping track of activities for Associates and companies that are interested in course field.4- Following-up outcomes from related scientific researches.5- Attending Scientific conferences.

C. Course Description (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

1 Topics to be Covered		
Topic	No of Weeks	Contacthours
Relational Databases	1	1 Hour /Theoretical 4 Hour /Practical
Basic Components of Oracle DBMS	1	1 Hour /Theoretical 4 Hours /Practical
SQL Language	1	1 Hour /Theoretical 4 Hours /Practical
Retrieving Data from Database	3	3 Hours /Theoretical 12 Hours /Practical

Single-Row and Cumulative Functions	1	1 Hour /Theoretical 4 Hours /Practical
Data Processing (Addition, Modification, Deletion)	1	1 Hour /Theoretical 4 Hour /Practical
Creating and Modifying Tables	1	1 Hour /Theoretical 4 Hours /Practical
Creating and Applying restrictions on Tables	1	1 Hour /Theoretical 4 Hours /Practical
Virtual Tables	1	1 Hour /Theoretical 4 Hours /Practical
Managing User Accounts	2	2 Hours /Theoretical 8 Hours /Practical
Basics of PL/SQL Language	2	2 Hours /Theoretical 8 Hours /Practical

2. Course components (total contact hours per semester):			
Lecture: 15 Hours	Tutorial:	Practical/Fieldwork/Internship: 60 Hours	Other:

3. Additional private study/learning hours expected for students per week. (This should be an average for the semester not a specific requirement in each week)

Every Student should study (at least) 4 hours per a week. On average, 60 hours per semester.

4. Development of Learning Outcomes in Domains of Learning

For each of the domains of learning shown below indicate:

a. Knowledge

(i) Description of the knowledge to be acquired

- Defining the components of Oracle DBMS.

- Mastering SQL Language (Data processing commands, Data definition commands, Restrictions, Views).
- Understanding the procedure of Managing user's accounts and granting privileges.
- Learning basics of PL/SQL Programming language.

(ii) Teaching strategies to be used to develop that knowledge

- In-Class Lectures
- In-Lab Lectures
- Outside-Learning resources
- Team Discussions (Students and Teacher)

(iii) Methods of assessment of knowledge acquired

- Paper-based Exams
- Practical Exams
- Quizes

b. Cognitive Skills

(i) Cognitive skills to be developed

- Skills of using Oracle SQL plus tool.
- The Ability to analyse ideas and implement them using Oracle system.
- The Ability to conclude and combine results.

(ii) Teaching strategies to be used to develop these cognitive skills

Analyse, simplify, and discuss above listed skills through lectures and practical training sessions and simulate them by examples related to student's environment and several real-life applications from programming market.

(iii) Methods of assessment of students cognitive skills

- Practical lab-sessions.
- Training exercises
- Home-works and weekly assignments
- In-class Discussions between students themselves and their teacher

c. Interpersonal Skills and Responsibility

(i) Description of the interpersonal skills and capacity to carry responsibility to be developed

- The Ability to work in a team to develop a specific database programming application

- The Ability to work individually to accomplish a specific task.

- The Ability to interact with other colleagues by discussions.

(ii) Teaching strategies to be used to develop these skills and abilities

- create study groups to exchange info and experiences in database programming techniques between members per each group.

(iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility

- Frequent evaluation for team-work projects.

- Frequent evaluation for accomplished individual assignments.

d. Communication, Information Technology and Numerical Skills

(i) Description of the skills to be developed in this domain.

- The Ability of using Computer system.

- The Ability of using Oracle Development software.

- The Ability of installing software applications.

- The Ability of using Internet and its tools.

- The Ability of searching and retrieving info from the Internet.

- The Skills of writing coding statements using SQL and PL/SQL programming languages.

- The Skills of doing presentations and discussions with others.

(ii) Teaching strategies to be used to develop these skills

- Discussions by In-Lab Applications.

- Assigning several exercises.

- Giving take-home assignments and home-works.

- Preparing some related topics to be presented In-class by students themselves

(iii) Methods of assessment of students numerical and communication skills

- Evaluating In-Lab projects.

- Evaluating Exercises.

- Evaluating take-home assignments and home-works.

- Evaluating Student's performance by their In-class presentations and discussions.

e. Psychomotor Skills (if applicable)

(i) Description of the psychomotor skills to be developed and the level of performance required N/A
(ii) Teaching strategies to be used to develop these skills N/A
(iii) Methods of assessment of students psychomotor skills N/A

5. Schedule of Assessment Tasks for Students During the Semester			
Assessment	Assessment task (eg. essay, test, group project, examination etc.)	Week due	Proportion of Final Assessment
1	Assignments – Home-works – Tasks	Once per a week	10%
2	Research – Programming Applications	12	10%
3	First Exam	7	20%
4	Second Exam	10	20%
5	Final Exam	Scheduled later	40%

D. Student Support

1. Arrangements for availability of faculty for individual student consultations and academic advice. (include amount of time faculty are available each week)

- A Direct Supervision should be by the teacher for students at the time of In-Lab practical training.
- On Average, 4 hours per a week for Office ones.

E. Learning Resources

1. Required Text(s)

1. A. Silbershatz, H. Korth, Database System Coceptss, 3rd Edition (or latest), 2001
2. Scott Urman, Oracle 10g PL/SQL programming, by Oracle Press.

2. Essential References

1. R. Elmasri & S.B. Navathe, Fundamentals of Database Systems, Addison Wesley, 5th Edition (or latest), 2006

3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)

2. C. Date, Introduction Database Systems, Addison Wesley, 8th Edition (or latest), 2006.

4- Electronic Materials, Web Sites etc

Resources on the Web:

www.oracle.com

<http://www.w3schools.com/sql>

<http://faculty.ksu.edu.sa/zitouni>

www.araboug.org

5- Other learning material such as computer-based programs/CD, professional standards/regulations

Oracle Database 10g Software Package (Installation CD/DVD)

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Lecture rooms, laboratories, etc.)

Computer Lab with 30 seats + A Lecture room with 30 seats

2. Computing resources

30 PCs

3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list)

- Oracle Database 10g Software Package should be installed on all Lab PCs

- Smart Board with a projector (at both lecture room + Computers Lab)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- Evaluating the course by taking students opinions at the end of the semester from several aspects, like: teaching techniques, topics covered,...etc.

- Doing some interviews with a randomly selected group of students, and asking them about their recommendations to develop the course for next semesters.

2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department

- An Evaluation should be made by the members of the department for the teacher of the course and the tools that were used in the teaching process.

- An Evaluation from guest teachers.

- Out-of-department revision.

- An Evaluation by the teacher of the course himself.

- A frequent local revision for the course by the committee of study's scheduling and planning.

3 Processes for Improvement of Teaching

- Availability for latest up-to-date PCs and maintenance support for them.

- Getting all benefits as much as we can from all in-campus and global revision processes.

- Taking in consideration all comments and recommendations made by department's committee about the teacher of the course by direct tracking for his teaching performance.

- Encourage self learning.

- Encourage extra readings from other resources.

- Encourage students doing presentations and mini-lectures.

- Encourage students interacting with each other by discussion's groups.

4. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent faculty member of a sample of student work, periodic exchange and remarking of a sample of assignments with a faculty member in another institution)

- Recheck procedure for randomly selected papers from one of course exams by external examiners.

- Revision procedure for randomly selected papers from one of course exams by a special committee of teaching members of department.

- Arrange some kind of group checking procedure with all teaching members at the department.

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- Compare this course with similar ones at other related departments.

- update the contents of course material to contain latest up-to-date info in this field of science.

- Use new technology tools to present and teach the course.
- Getting benefits from the evaluation made by students to add, modify, and update course material and teaching methodologies.
- A frequent and continuous revision should be made for the course description by the committee of study's scheduling and planning.