

Kingdom of Saudi Arabia
The National Commission for Academic Accreditation & Assessment

337CIS-3
Database Management Systems Administration

Course Specification
First Semester 2016-2017

B. Objectives

1. Identify the architecture and features of DBMS
2. Construct the new database.
3. Clarify the DB performance issues.
4. Determine the benefits of indexing , integrity constraints and triggers.
5. Apply database backups issues to recovery.
6. Analyze the Categories of database failure.

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

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
1. Architecture of the Oracle 10g	1	
2. Logical Structure	1	
3. Database Constraints	1	
4. Relational Integrity Constraints	1	
5. Key Constraints	1	
6. Assertions and Trigger	1	
7. Indexing Structure for File	1	
8. An Overview of Database Tuning in Database	1	
9. Recovery Concepts	1	
10. Database Backup	1	
11. Database security	1	
12. Types of Discretionary Privileges	1	
13. Threats to databases	1	
14. Database Security and the DBA	1	

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other	Total
Contact Hours						0
Credits						0

3. Additional private study/learning hours expected for students per week.

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Method
1.0	Knowledge		
1.1	Not applicable to this course		
2.0	Cognitive		
2.1	Not applicable to this course		
3.0	Interpersonal		
3.1	Not applicable to this course		
4.0	Communication		
4.1	Not applicable to this course		
5.0	Psychomotor		
5.1	Not applicable to this course		

5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task	Week Due	Proportion of Total Assessment
1.	Midterm Exam 1		15 %
2.	Midterm Exam 2		15 %
3.	Assignment 1		7 %
4.	Quiz 1 and Quiz 2		3 %
5.	Lab Test & Performance		10 %
6.	Final Lab Exam		10 %
7.	Final Exam		40 %

D. Student Academic Counseling and Support

1.

E. Learning Resources

1. List Required Textbooks - Fundamental of Database Systems, Elmasri, Navathe, 6th Edition, Addison Weley - Tim Buterbaugh et al, OCP Oracle 10gcerification kit, Sypex Inc.
2. List Essential References Materials (Journals, Reports, etc.) - Thomas Connolly Beggg, Database Systems:A Practical Approach to Design , and Management, Addison-Wesley
3. List Recommended Textbooks and Reference Material (Journals, Reports, etc) -
4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) -

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

-

F. Facilities Required

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

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

-

2. Computing resources (AV, data show, Smart Board, software, etc.)

-

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

-

G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching

Methods

Ways

Plan of Action

2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor

3. Processes for Improvement of Teaching

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

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

Teaching Staff : Mr. Omar Abdul Rehman Ali

Signature : _____

Date of Report Completed : 26-Jan-2017

Received by : _____

Dean/Department Head

Signature : _____

Date : _____

