



T-104
2022

Course Specification



Course Title: Database Administration
Course Code: 297 CIS-3
Program: Programming and Database
Department: Computer department
College: Applied college
Institution: Najran university
Version: T-104 2022
Last Revision Date: 22 JULE 2023



Table of Contents:

Content	Page
A. General Information about the course	3
1. Teaching mode (mark all that apply)	3
2. Contact Hours (based on the academic semester)	3
B. Course Learning Outcomes, Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Student Assessment Activities	6
E. Learning Resources and Facilities	6
1. References and Learning Resources	6
2. Required Facilities and Equipment	7
F. Assessment of Course Quality	7
G. Specification Approval Data	7



A. General information about the course:

Course Identification	
1. Credit hours:	3(2+1)
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Track <input type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 4 th Level	
4. Course general Description This course helps the student to describe the types of tasks involved in managing database and automating Some of these tasks are in addition to identifying professional responsibilities in database management. The course also focuses on important topics in database management, such as monitoring database operations, Troubleshooting. beside Database Security Fundamentals	
5. Pre-requirements for this course (if any): Data Management system	
6. Co- requirements for this course (if any): _non	
7. Course Main Objective(s) This course is intended to: <ul style="list-style-type: none"> • Enable students to create an Oracle database • Enable students to describe Oracle database basic functions • Enable students to communicate with others effectively to solve database Problems 	

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	4 hours per week	٩٨%
2.	E-learning	cases that require it	٢%
3.	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4.	Distance learning		





2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Describe types of tasks involved in database management	K2	Lecturers Labs	Exam Quiz Assignment
1.2	Define the main concepts of Troubleshooting and Database Security Fundamentals	K3	Lecturers Labs	Exam Quiz Assignment
...				
2.0	Skills			
2.1	explain the concepts of Database Monitoring and Usage Performance.	S1	Lecturers Labs	Exam Quiz Assignment
2.2	Automate many database tasks.	S1	Lecturers Labs	Exam Presentation
...				
3.0	Values, autonomy, and responsibility			
3.1	Recognize professional responsibilities in Database Management	V3	Project Small group report	Presentation



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
3.2	Function effectively as member or a team leader engaged in Database Management		Project Small group report	Presentation
...				

C. Course Content

No	List of Topics	Contact Hours
١	<ul style="list-style-type: none"> 1-getting started with Database administration (types of oracle database users-tasks of database administrator-about database administrator security and privileges) Lab : <ol style="list-style-type: none"> 1. connecting to the database with sql*plus 2. Identifying an Oracle Database software releasr 3. Creating and configuring an oracle database Creating and maintain a database password file	16
٢	<ul style="list-style-type: none"> • Managing Processes (about dedicated and shared server processes-back up and restore databases. -define policies and procedures, database security and user management,) Lab: including creating and resetting user passwords, creating groups, and more!	12
٣	<ul style="list-style-type: none"> • Monitoring the database (Monitoring errors and alerts - Monitoring performance Monitoring Quarantined objects) Lab: monitoring errors with trace files and the alert log Moniting locks	٨
٤	creating tablespaces Lab: creating tablespaces	٨





	<ul style="list-style-type: none"> diagnosing and resolving problems (about oracle database fault diagnosability infrastructure - diagnosing problems-reporting problems) <p>Lab :-adding problems manually to the automatic diagnostic repository</p> <ul style="list-style-type: none"> -Creating incidents manually - Starting up and shutting down -Starting up a database –altering database availability –shutting down the database 	8
6	Database Security Fundamentals	8
		60

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm exam	8	20%
2.	Homework's	From 2 to 12	10%
3.	Practical exam	16	20%
4	Final exam	17	50%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Oracle® Database Database Administrator's Guide
Supportive References	https://www.oracletutorial.com/oracle-administration/ Oracle® Database Database Administrator's Guide
Electronic Materials	https://docs.oracle.com/en/database/oracle/oracle-database/19/admin/database-administrators-guide.pdf https://www.oracletutorial.com/oracle-administration/
Other Learning Materials	



2. Required Facilities and equipment

Items	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom with a suitable size for students
Technology Resources (AV, data show, Smart Board, software, etc.)	Whiteboard/projector
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Student	Direct: Questioners
Effectiveness of students assessment	Teacher Audit and review committees	Direct: CW & HW Exercises and short quizzes Projects Mid and final paper exams.
Quality of learning resources	Teachers and course description committees	Indirect: Benchmarking Self-evaluation External evaluation
The extent to which CLOs have been achieved	Teacher	Direct: Measuring the learning outcomes
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE		
REFERENCE NO.		
DATE		