

SPRING 2024, WEEKLY COURSE BREAKUP PLAN

COURSE BASICS

Course Title: Database Management Systems Lab (Lab)

Course Code: CSL 220

Credit Hours: 1

Prerequisite: CSL 113

Class: **BSE - 4** Section: **A/B/C**

Instructor: Engr. Noor us Sabah

Email: noorussabah.bukc@bahria.edu.pk

COURSE OBJECTIVES AND DESCRIPTION:

This course is to focus on the technical aspects of database to provide a foundation in data management concepts. It includes representing information with the relational database model. Learn and apply the Structured Query Language (SQL) for database definition (DDL) and manipulation (DML). Create applications and connect them with backend (database).

COURSE LEARNING OUTCOMES (CLO):

Upon successful completion of this course, students should be able to:

CLO	Statement	Bloom's Taxonomy	Associated PLO
CLO 1	Follow the instructions to implement guidelines related Structured Query Language (SQL) for database definition and manipulation in DBMS.	Р3	PLO5
CLO 2	Display project management skills and objective based approach to develop solutions in a teamwork environment.	A3	PLO11
CLO 3	Show the ability to act upon a sequence of steps pertaining to designing databases, apply DML queries and use concepts like Stored procedures, triggers views etc in response to given scenarios.	P4	PLO3,5
CLO 4	Display the spirit of self-reliance to complete the lab journal timely and professionally.	A3	PLO8,9
CLO 5	Design & implement database projects according to the specific frontend and back-end requirements.	P4	PLO5
CLO 6	Explain different concepts of Database Management System using DDL, DML queries, Stored procedures, Views, Triggers etc.	A2	PLO10



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WEEKLY BREAKDOWN:

Week	Week Days	Tentative Course Plan
1	12th Feb – 16th Feb	Querying Database table using select and where clause
2	19th Feb – 23th Feb	Querying database table using order by , group by and aggregate functions
3	26th Feb – 1st Mar	Joining queries
4	4th Mar – 08th Mar	Self Joins and Relational set operators
5	11th Mar – 15th Mar	Sub queries
6	18th Mar – 22th Mar	Manipulate the structure of the table through DDL query
7	25th Mar – 29th Mar	Constraints on Tables
8	01st Apr – 05th Apr	Open Ended Lab 01
9	8th Apr – 12th Apr	EID UL FITR
10	15 th Apr – 21 th Apr	MID TERM EXAM
11	22nd Apr – 26th Apr	Manipulate the data of the table through DML query and Creating indexes
12	29th Apr – 03rd May (1st May Labour Day)	Views
13	06th May – 10th May 11th Dec – 15th Dec	Stored Procedures
14	13th May – 17th May	Control-of-flow statements in stored procedures



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15	20th May – 24th May	Implementation of triggers in table	
16	27th May – 31th Dec	SQL connectivity and transactions, Rollup and cube	
17	3rd Jun – 7th Jun	Open Ended Lab 02	
18	10th Jun – 14th Jun	Project Submission	
19	17th Jun – 21st Jun	EID UL AZHA	
20	21st Jun – 03rd Jul	FINAL TERM EXAM	

NOTE:

- **a.** This schedule is subject to revisions as conditions may warrant.
- **b.** Topics will be covered in sequence no matter if city observes any planned or unplanned holidays.
- c. The information in this course outline is subject to revision as conditions may warrant.



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LAB ASSESMENT METHOD

METHOD OF EVALUATION AND STRUCTURE:

A student's grade will be based on multiple measures of performance as mentioned below:

LAB EVALUATION				
EVALUATION INSTRUMENTS (EI)	MARKS			
LAB WORK	70			
LAB PERFORMANCEOPEN ENDED LABLAB JOURNAL	39 18 13			
PROJECT	30			
DEMONSTRATIONMANAGEMENTVIVA	15 10 5			
Total:	100			

NOTE: Any change in this scheme/format will be communicated well in time.



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MAPPING OF CLOS TO PLOS (PROGRAM LEARNING OUTCOMES)

	CLOs					
PLOS	CLO 1	CLO 2	CLO 3	CLO 4	CLO5	CLO6
PLO:1 (Engineering Knowledge)						
PLO:2 (Engineering Problem Analysis)						
PLO:3 (Designing and Development)			✓			
PLO:4 (Investigation)						
PLO:5 (Modern tool usage)	✓			✓		
PLO:6 (Engineer and Society)						
PLO:7 (Environment and Sustainability)						
PLO:8 (Professionalism and Ethics)						
PLO:9 (Individual and Team Work)		✓				
PLO:10 (Communication)						✓
PLO:11 (Project Management)					✓	
PLO:12 (Lifelong Learning)						

MAPPING OF CLOS TO COURSE EVALUATION INSTRUMENTS (EI)

	CLOs					
EI	CLO 1	CLO 2	CLO 3	CLO 4	CLO5	CLO6
Lab performance	✓					
Lab Journal		✓				
Project Management					✓	
Project Demonstration			✓			
Open Ended Labs 1				✓		
Open Ended Labs 2				✓		
Lab Project Viva						✓
OEL 1 VIVA						✓



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GRADING SYSTEM:

Letter Grade	Grade Point	Percentage
A	4.0	≥ 85 -
A-	3.67	≥ 80 < 85
B+	3.33	≥ 75 < 80
В	3.00	≥ 71 < 75
B-	2.67	≥ 68 < 71
C+	2.33	≥ 64 < 68
С	2.00	≥ 60 < 64
C-	1.67	≥ 57 < 60
D+	1.33	≥ 54 < 57
D	1.00	≥ 50 < 53
F	0.00	- < 50

NOTE: The minimum consequence for submitting a plagiarized (copied) or falsified assignment, test, report, project, or any evaluated material will award zero marks on that material.



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COURSE RESOURCES

LAB INSTRUCTOR:

NAME: Eng. Noor us Sabah

DESIGNATION: Lab Engineer

EMAIL: noorussabah.bukc@bahria.edu.pk

COUNSELING HOURS

- a. Students are encouraged to approach subject teacher beyond class hours to discuss academic or subject related problems.
- b. Arrange and confirm an appointment through email at noorussabah.bukc@bahria.edu.pk for an available time slot.
- c. Ensure your presence in your allocated time slot.