

LESSON PLAN

Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Remarks
1 (1)	I	Introduction to DBMS	chalk & talk	
1 (1)		Database system Vs file system	chalk & talk	
1, 2 (2, 3)		Database system Applications	chalk & talk	
2 (4)		Purpose of Database System	chalk & talk	
3 (5, 6)		View of Data	chalk & talk	
4 (7, 8)		Database Design, Engine	chalk & talk	
6, 1 (9, 10)		Database & Application Architecture	chalk & talk	
1 (11)		Database user & Administrator	chalk & talk	
1 (11)		Overview of the SQL Query Language	chalk & talk	
2 (12)		Data types, DDL, DML	chalk & talk	
2 (13)	II	Introduction of Relational model	chalk & talk	
1, 6 (14, 15)		Structure of Relational DB	chalk & talk	
1, 2 (16, 17)		Database Schema, Keys	chalk & talk	
6 (18)		Schema Diagrams	chalk & talk	
12 (19, 20)		Relational Algebra	chalk & talk	
2, 8 (20, 21)		select operation	chalk & talk	
6 (2)		Project operation	chalk & talk	
6 (21)		Composition of Relational operations	chalk & talk	
6 (21)		Cartesian Product operation	chalk & talk	
1 (22)		Join operation, set operations	chalk & talk	

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1 (22)		Integrity constraints	chalk & talk	(1)
6 (23)		set operations Group by & Having	chalk & talk	(2)
6 (23)		Aggregate Functions	chalk & talk	(3)
8 (24)		NULL values.	chalk & talk	(4)
1 (24)	III	Database Design using E-R Model	chalk & talk	(5)
5 (25)		Overview of the Design process	chalk & talk	(6)
2 (26)		Entity Relationship Model	chalk & talk	(7)
6 (27)		complex attributes	chalk & talk	(8)
6 (27)		mapping cardinalities	chalk & talk	(9)
1 (28)		Nested queries, join Operations	chalk & talk	(10)
5 (29)		views, DCL	chalk & talk	(11)
2 (30) 6 (31)		TCL, Triggers	chalk & talk	(12)
1 (32) 6 (34)		case study: Reducing ER Diagrams to relational schema	chalk & talk	(13)
2 (35)	IV	Schema refinement & Normal forms	chalk & talk	(14)
1 (36)		Problems caused by redundancy	chalk & talk	(15)
1 (37)		Decompositions	chalk & talk	(16)
5 (38)		Problem related to Decomposition	chalk & talk	(17)
5 (38)		Functional Dependencies	chalk & talk	(18)
5 (39)		Reasoning about FDS,	chalk & talk	(19)
6 (40)		4NF, 5NF, BCNF	chalk & talk	(20)

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