

S.No.	Week	Topic	Mode of Delivery
1	1	Introduction : Database System -- Views- Data Models - Database Languages -- Database System Architecture - Database users and Administrator	Chalk and Talk
2	2	E-R model - E-R Diagrams -- Introduction to relational databases	PowerPoint Presentation
3	3	Relational model: The relational Model -Keys - Relational Algebra	-do-
4	4	Domain Relational Calculus - Tuple Relational Calculus - Fundamental operations - Additional Operations	-do-
5	5	SQL fundamentals - Integrity - Triggers - Security - Advanced SQL features -Missing Information- Views -	-do-
6	6	Database design: Functional Dependencies - Non-loss Decomposition - Functional Dependencies	-do-
7	7	First, Second, Third Normal Forms, Dependency Preservation - Boyce/Codd Normal Form	-do-
8	8	Multi-valued Dependencies and Fourth Normal Form - Join Dependencies and Fifth Normal Form	-do-
9	9	Transactions :Transaction Concepts - Transaction Recovery - ACID Properties - System Recovery -Media Recovery Two Phase Commit - SQL Facilities for recovery - Concurrency - Need for Concurrency - Locking Protocols - Two Phase Locking	-do-
10	10	Intent Locking - Deadlock- Serializability - Recovery Isolation Levels	-do-
11	11	Emerging systems: Distributed Data bases - Object oriented Data bases - Mobile Databases- XML and Web Databases	-do-
12	12	Active and Deductive Databases - Multimedia Databases- Multimedia Data Structures - Multimedia Query languages - Spatial Databases.	-do-