

<b>Name Of the</b>	<b>Nisha</b>
<b>Discipline:</b>	<b>BCA</b>
<b>Semester:</b>	<b>3rd Sem</b>
<b>Subject:</b>	<b>Fundamentals of Database Systems (BCA-235)</b>
<b>Lesson Plan Duration : 14 weeks</b>	
<b>**Work Load (Lecture/Practical) per week (In Hours):Lecture -03 (Of One Sections)</b>	
<b>Week</b>	<b>Topic (including assignment/test) (In Each Section )</b>
1	Introduction to DataBase
	Basic Concepts: Data, Information, Record and Files
	Traditional File Based System,
2	Systems-File Based Approach
	Limitations of File Based Approach
	DataBase Approach
3	Characteristics of Database Approach
	DataBase Management System
	Components of DBMS Environment
4	Roles in DataBase Environment-Data and DataBase Administrator
	DataBase Designer, Application Developer and User
	Class Test
5	DataBase System Architecture
	Three-Levels of Architecture:- External, Internal and Conceptual
	Schemas, Mapping and Instances
6	Data Independence- Logical and Physical Data Independence
	Classification of DataBase Management System
	Centralized and Client Server Architecture of DBMS
7	Problems of Unit 1 & Unit -2
	Class Test
	Data Models-Record Based Data Models
8	Object Based Data Models
	Physical Data Models and Conceptual Modeling
	Entity-Relationship Model an Introduction
9	Entity Types, Entity Sets, Attributes
	Relationship Types, Relationship Instances
	Example of ER Diagram
	Example of ER Diagram

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10	Example of ER Diagram Discussion Class Test
11	Relational Data Model:-Brief History Terminology in Relational Data Structure Relations, Properties of Relations
12	Keys in Relational Model Keys in Relational Model Contd.. Domains, Integrity Constraints over Relations
13	Base Tables and Views Basic Concepts of Hierarchical Data Models Basic Concepts of Network Model
14	Problems of ER Diagram Problems of Unit 4 Discussion of Previous Papers