**LESSON PLAN -2023-24 (Odd Sem.)**

**Class: B.sc 5th Sem. (DATABASE MANAGEMENT SYSTEM)**

**Name:- Dr Rajesh Dawar Sub:- Database Management System (5.1)**

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| **Month** | **1st Week** | **2nd Week** | **3rd Week** | **4th Week** |
| **JULY.** | -------- | ------------ | -- | Introduction to DBMS-data, information, record, files, Concept of Traditional File System |
| **AUG.** | Limitations of Traditional file System, DBMS Approach, its Characteristics and advantages/disadvantages of DBMS | Components of DBMS, DBA and its role | Centralized and Client Server Architecture of DBMS, Three Level Architecture of DBMS, Mapping and instances. Data Independence -Physical and Logical Data Independence | Data Models-Record Based Data Models, Object based Data Models, Physical Data Models and Conceptual Modeling |
| **SEPT.** | Entity Relationship Model-Entity type, entity sets, Attributes, Keys, Relationship, Relationship sets | Conceptual design using ER Diagram | Relational Data Model, Properties of Relation, Keys, Integrity Constraints , Views | Normalization- 1st to 3rd NF , BCNF,  |
| **OCT** | Lossless join and dependency preserving decomposition | SQL Type and components of SQL, Data definition and data types, DDL Commands | DML Commands, Data Control commands, Specifying constraints, | Basic Queries in SQL, insert, update and delete commands in SQL. Inbuilt date functions in SQL |
| **NOV** | Inbuilt String function, commit, rollback and savepoints. Creating views | -- | Revision | --- |

**Teacher Signature**

**Dr. Rajesh Dawar**