**Relational Database Management System**

**UNIT wise important topics**

**Unit-I**

Three Level Architecture.

Different Roles of Database Administrator

Data Models (Hierarchical, Network and Relation)

ER Diagram

**Unit- II RDBMS**

Introduction to Distributed Database

Classification of DBMS

Relational Model

Relational algebra operations (select, project, and rename, union, intersection, minus)

Different types of Joins

Normalization of RDBMS (1NF, 2NF, 3NF and 4NF)

**Unit-3 SQL**

Oracle SQL data types

DDL, DML, DQL and DCL commands

**Unit-4** **PL/SQL**

PL/SQL Data types

Features of PL/SQL: Blocks structure, Error handling, Input and output designing, variables and constant, data abstraction, control structures and subprogram

Procedures

Function

Cursors

Exception Handling

Static and Dynamic SQL

Advantages of PL/SQL

Static and dynamic and static SQL, Implicit and explicit locking

UNI-5  **Oracle, Trigger and wrapping**

Oracle Trigger, Packages and wrapping

Functions/responsibilities of DBA

Oracle product details

Oracle files, System and User process

Oracle Memory

Protecting data: Oracle backup & recovery

Triggers - types, uses, data access for triggers

PL/SQL Packages and Wrapping