

Course: - MSC(CS)
Sub Code: 3MSC(CS)2

Semester: III
Subject Name- -Database Management System

8223

14

Unit	Lectures	Practical's	Workshops	Demo	Field Visits	Total	Remarks
UNIT-I Database system Applications, Purpose of database System, View of data, Database Languages, Database Architecture, Structure of Relational database, Database Schema, Keys, Relational Operations.	8					8	
UNIT-II Database Design Process, The ER Model, Constraints, Details of ER Diagram, ER Design issues, Extended ER Features, The relational Algebra.	8					8	
UNIT-III Relational database Design Features, First Normal Form, Functional dependency Theory, Decomposition Using Functional Dependency, 2NF, 3NF, BCNF, Join and Multivalve dependency, 4NF and 5 NF, Basic structure of SQL queries, Working with Tables, Data type in SQL, Data Constraints	8					8	
UNIT-IV Select Command, Oracle Operator, Range Searching, Pattern Matching, Joins expression, SQL Built in Function Grouping data from Tables in SQL, Manipulation Data in SQL, Joining Multiple Tables, Sub queries, working with User, Working With View.	8					8	
UNIT-V PL/SQL, SQL & PL/SQL, Differences, Blocking Code for Clarity, Using Variables, Constant and Data Types, Assigning Data Base Values to Variables, Cursor, Using Flow Control and Loop Statements, Go To Statement, Exception handling in PL/SQL, Stored Packages, Procedures, and Functions in PL/SQL, Trigger Usage and Application.	8					8	
TEXT & REFERENCE BOOKS:							
<ul style="list-style-type: none"> • AN INTRODUCTION TO DATABASE SYSTEM (3RD ED.) BY C.J. DATE • DATABASE SYSTEM CONCEPTS BY HENRY F. KORTH • DATABASE MANAGEMENT SYSTEMS BY LEON & LEON, VIKAS PUBLICATIONS. • AN INTRODUCTION T O DATABASE SYSTEM BY BIPIN C. DESAI • FUNDAMENTALS OF DATABASE SYSTEM (2ND ED.) BY ELEMESRI AND S. NAVATHE • ORACLE A BEGINNERS GUIDE BY MICHAEL ABBEY & MICHAEL J. COREY TMH PUBLICATIONS 							