MCA 313: Oracle

Teaching Scheme	Examination Scheme
Lectures: 3 hrs/Week Tutorials: 1 hr/Week Credits: 4	Class Test -12Marks Teachers Assessment - 6Marks Attendance – 12 Marks End Semester Exam – 70 marks

Prerequisite: - Database Management Systems

Course Objectives:

1. Understand DBMS architecture
2. Understand Transaction control language.
3. Understand Updating and deleting data through views.
4. Oracle Overview and Architecture.
5. Maintaining and monitoring redo log files.
6. Managing Users and Security.

Detailed Syllabus:

UNIT I

Introduction: DBMS architecture and data independence, DBA roles and responsibilities. SQL *PLUS Overview: SQL plus Fundamentals, producing more readable outputs, Accepting values at runtime, Using iSQL *Plus.

UNIT II

Modifying Data: Introduction to DML Statements, Truncating a table, Transaction control language. Managing Constraints: Creating constraints, dropping constraints, enabling and disabling constraints, deferring constraints checks.

UNIT III

Managing Views: Creating and modifying views, Using views, Inserting, Updating and deleting data through views. User Access and Security: Creating and modifying use accounts, creating and using roles, granting and revoking privileges, managing user groups with profiles.

UNIT IV

Oracle Overview and Architecture: An overview of logical an physical storage structures, Oracle memory structures, Oracle background processes, connecting to oracle instance, processing SQL command. Managing Oracle: starting up the oracle instance, managing sessions, and shutting down the oracle instance, instances messages and instance alerts.

UNIT V

Control and Redo Log Files: Managing the control files, Maintaining and monitoring redo log files. Managing tables, indexes and constraints: Storing data (create, alter, analyzing, and querying table information), Managing indexes, Managing constraints.

UNIT VI

Managing Users and Security: Profiles, managing users, managing privileges, managing roles, querying role information. Introduction to Network Administration: Network design considerations, network responsibilities for the DBA, network configuration, Overview of oracle Net features, Oracle Net Stack Architecture.

Head
Department of Computer Applications
Faculty of Computer Application
Invertis University, Bareilly (U.

Dean Academics

Text and Reference Books

1. C.J. Date, Database Systems, Addison Wesley, 2000
2. Chip Dawes, Biju Thomas, Introduction to Oracle 9i SQL, BPB, 2002
3. Bob Bryla, Biju Thomas, Oracle 9i DBA Fundamental I, BPB, 2002
4. Doug Stums, Matthew Weshan, Oracle 9i DBA Fundamental I, BPB, 2002
5. Joseph C. Johnson, Oracle 9i Performance Tuning., BPB, 2002

Course Outcomes:

1.Acquire knowledge of handling large volume of data.
2.Acquire skills to deal with Real life database implementation.
3.Response off faster queries and serve as many users as possible concurrently.
4.Attain the capability to represent various real life problem domains using logic based techniques and use this to perform inference or planning.
5.Fit with any Database project in industry after completion of degree.