



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Bachelor of Vocation (B.Voc.), 4th Semester
Branch: Information Technology
Subject Name: Advanced Database Management System Lab
Subject Code: 1140506

Type of subject: Practical

Prerequisite: Basic of Database Management System.

Rationale: ADBMS provides advanced knowledge about databases and its fundamentals. It is used for managing data into a particular format. It is used in real world, research, analytics etc. applications.

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA(M)	ESE(V)	PA(I)		
0	0	2	2	0	0	30	20	50

L- Lectures; P- Practical; OJT- On Job Training; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Suggested List of Exercise / Practical:

Sr. No.	Unit No.	Practical/Exercises	Hrs.
1	1	Perform queries for DML, DQL, DCL Commands and Locks	2
2	1	Implement authorization, authentication, privileges on database.	2
3	1	Perform queries to Create synonyms, sequence and index	2
4	1	Perform queries to Create, alter and update views	2
5	2	Implement PL/SQL programmes using control structures	2
6	2	Implement user defined procedures and functions using PL/SQL blocks	2
7	2	Perform various operations on packages.	2
8	2	Implement various triggers	2
9	2	Implement PL/SQL programmes using Cursors	4
10	2	Implement PL/SQL programmes using exception handling.	4
11	2	Implement PL/SQL programmes using event Handling.	2
12	2	Study Various Types of Backups.	2
Total Hours			28

Reference Book:

1. Database Systems Concepts, design, and Applications Singh, S. Pearson Education, New Delhi, 2012
2. SQL/ PL/SQL Bayross, Ivan BPB
3. An Introduction to Database Systems Date, C. Pearson Education, New Delhi, 2012
4. Database System Concepts, Korth, HenryMGH



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Course Outcomes:

Sr. No.	CO Statement	Marks % Weightage
CO-1	Implementation of privileges, locks and DCL commands for database	25
CO-2	Implementation of PL/SQL commands, functions, cursors and exception handling, blocks, triggers and other fundamentals.	50
CO-3	Implementation of Micro project.	25

Learning Of Open Source Software/Learning Websites:

1. Software: Oracle 10e/11g express edition
2. DBMS: <http://nptel.iitm.ac.in/video.php?subjectId=106106093>
3. SQL Plus Tutorial: <http://holowczak.com/oracle-sqlplus-tutorial/>
DatabaseTutorials:<http://www.roseindia.net/programming-tutorial/Database->
4. Tutorials Notes: <http://service.felk.cvut.cz/courses/X36SQL//cviceni/plsql/pdf/>
5. SQL Basic Concepts: <http://www.w3schools.com/sql/> SQL Tutorial: <http://beginner-sql-tutorial.com/sql.htm>