

**SWARNANDHRA**  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(AUTONOMOUS)**  
**SEETHARAMPURAM, NARSAPUR-534280, WG - DT, AP**  
**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

**TEACHING PLAN**

Course Code	Course Title	Year / Sem.	Branch	Hr/ week	Academic Year	Semester Start Date
24MC1L01	Database Management Systems Lab	I/I	MCA	6	2024-25	26-08-2024

**Course Outcomes (COs):** At the end of the course, students will be able to

Course Outcomes		Knowledge Level (K)#
<b>CO1</b>	Utilize SQL to execute queries for creating database and performing data manipulation operations	<b>K3</b>
<b>CO2</b>	Examine integrity constraints to build efficient databases	<b>K4</b>
<b>CO3</b>	Apply Queries using Advanced Concepts of SQL	<b>K3</b>
<b>CO4</b>	Build PL/SQL programs including stored procedures, functions, cursors and triggers.	<b>K6</b>

S.NO	EXERCISE/PROGRAM	Proposed Number Labs
<b>EXERCISE-1</b>		
1	Execute all DDL, DML and DCL commands on sample tables.	1
<b>EXERCISE-2</b>		
2	Implementation of different types of operators and built-in functions with suitable examples	1
<b>EXERCISE-3</b>		

3	Implementation of different types of joins with suitable examples.	1
<b>EXERCISE-4</b>		
4	Create views, partitions, Sequences for a particular DB	1
<b>EXERCISE-5</b>		
5	a) Implement different types of constraints on relations.	1
<b>EXERCISE-6</b>		
6	Implementation of sub queries and nested queries.	
<b>EXERCISE-7</b>		
7	Implement Queries on Group By & Having Clauses, ALIAS, Sequence By, Order By	1
<b>EXERCISE-8</b>		
8	Control Structure a) Write a PL/SQL block for Addition of Two Numbers b) Write a PL/SQL block for IF, IF and else condition c) Write a PL/SQL block for implementation of loops d) Write a PL/SQL block for greatest of three numbers using IF AND ELSEIF	1
<b>EXERCISE-9</b>		
9	Exception Handling- Implement the following with respect to exception handling. Raising Exceptions, User Defined Exceptions, Pre-Defined Exceptions	1
<b>EXERCISE-10</b>		
10	Write PL/SQL block for an application using exception handling Procedures a) Write a PL/SQL Procedure using Positional Parameters b) Write a PL/SQL Procedure using notational parameters c) Write a PL/SQL Procedure for GCD Numbers d) Write a PL/SQL Procedures for cursor implementation (explicit and implicit cursors)	1

<b>EXERCISE-11</b>		
11	Functions: a) Write a PL/SQL block to implement factorial using functions b) Write a PL/SQL function to search an address from the given database	1
<b>EXERCISE-12</b>		
12	Write a DBMS program to prepare Pl/SQL reports for an application using functions.	1
<b>EXERCISE-13</b>		
13	Triggers: a) Write a Trigger to pop-up the DML operations b) Write a Trigger to check the age valid or not Using Message Alert. c) Create a Trigger on a table so that it will update another table while inserting values	1
<b>EXERCISE-14</b>		
14	Write PL/SQL block for an application using cursors and all types of triggers.	1
<b>EXERCISE-15</b>		
15	Write PL/SQL block for transaction operations of a typical application using package	
Lab Internal Examination		

P. Venkanna  
Faculty

*A. Lakshmi*  
Head of the Department

*A. Lakshmi*  
Principal