



SWARNANDHRA

COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by
NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956,
Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada
Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY

TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
20IT4L02	DATA BASE MANAGEMENT SYSTEMS LAB	3	CSE & BS	3 Periods	2023-24	03/01/24
COURSE OUTCOMES						
1	Define, manipulate and control data using Structured Query Language (SQL).					
2	Enforce Database Integrity Constraints.					
3	Implement SQL Queries using set operators, sub queries, nested queries, aggregate Functions, other SQL functions and views.					
4	Develop applications using various features of PL/SQL like Functions, Procedures,					
5	Develop Database system to handle the real world problem.					
Experiment Number	Experiment					Contact Hours
1	DDL and DML Commands.					3
2	Restricting and storing the Data using Key constraints. And displaying Data from Multiple Tables using SELECT command.					2
3	Queries (along with sub Queries and nested Queries) using ANY, ALL, IN, EXISTS, NOT EXISTS, UNION, INTERSECT.					2
4	Queries using Aggregate functions (COUNT, SUM, AVG, MAX and MIN), GROUP by, HAVING Clause					3
5	Creation and dropping of Views.					2
6	Queries using Conversion functions (to char, to number and to date), string functions (Concatenation, lpad, rpad, ltrim, rtrim, lower, upper, initcap, length, substr and instr), date functions (Sysdate, next day, add months, last day, months between, least, greatest, trunc, round, to char, to date). (i) Creation of simple PL/SQL programs which includes declaration section, executable section and exception handling section. (ii) Insert data into tables and use COMMIT, ROLLBACK and SAVEPOINT in PL/SQL block.					3
7	Develop a program that includes the features IF, NESTED IF, CASE					3



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	and CASE expression.	
8	Program development using simple loops, while loops, numeric for loops, nested loops	2
9	ERROR Handling, BUILT-IN Exceptions, User defined Exceptions, RAISE- APPLICATION ERROR.	3
10	Programs development using creation of procedures, passing parameters IN and OUT of PROCEDURES.	2
11	Program development using creation of stored functions, invoke functions in SQL Statements and write complex functions	2
12	Program development using creation of package specification, package bodies, private objects, package variables and calling stored packages.	2
13	Develop programs using Cursors.	2
14	Develop Programs using Triggers.	2
CUMULATIVE PROPOSED PERIODS		33

	Name	Signature with Date
i. Faculty	Mr.K.Bhanu Chand	<i>K. Bhanu Chand</i> 08/11/24
ii. Module Coordinator	Dr.RVVS Prasad	<i>Dr. RVVS Prasad</i>
iii. Programme Coordinator	Dr.RVVS Prasad	<i>Dr. RVVS Prasad</i>


Principal