

Branch Name:	Computer Engineering (Software Engineering)
Program Code:	ET203
Course Title:	Advance Database Management System Practical
Course Code:	2ET2030302P
Pre-requisite Course:	Basic about computer operating system.

Course Objectives:

The objective of this course is to learn mathematical concepts using SCILAB

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								
					Theory (Marks)				Practical (Marks)				Total (Marks)
	L	T	P	Total	SEE		CCA		SEE		CCA		
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
3	3	-	-	3	24	60	16	40	-	-	-	-	100

Course Contents:

Sr. No	Practical List	Contact Hours
1	Study of Open Source Relational Databases : MySQL and apache tomcat	2
2	Design and Develop SQL DDL statements which demonstrate the use of SQL objects such as ·Table ·View ·Index ·Synonym.	2
3	Design at least 10 SQL queries for suitable database application using SQL DML statements: Insert, Select, Update, Delete with operators, functions, and set operator.	2
4	Design at least 10 SQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View –	2
5	Implement aggregate functions. Min,max,avg	2
6	Query optimization through Nested Query (Use of logical connectives, set comparison operators, Union, Intersect, Except, Exists clauses)	2
7	Use of Group By and Having clause, Trigger creation	2
8	Mini-projects implementation in RDBMS environment.	2

Reference Books:

1. · J. D. Ullman, “Database System: The Complete Book” , Pearson, 1st Edition, 2003.
2. · Korth Silberschatz and Sudarshan, “Database System Concepts”, Tata McGraw Hill, 6th Edition, 2011.
3. · Richardo Baeza –Yates, Berthier Ribiero-Neto “Modern Information Retrieval “ Addison –Wesley.
4. · Christopher D. Manning “Introduction to Information Retrieval” Cambridge University Press, 2008.

Course Outcomes:

At the end of the course, students will be able to:

Course Outcomes	Description	Bloom's Taxonomy Level
CO1	Discuss the basic structure SQL	Understanding (2)
CO2	Understanding tool box and looping techniques	Understanding (2)
CO3	Use symbolic math toolbox in SCILAB to differential and integrate the standard functions	Applying (3)
CO4	Write a small program to solve mathematical equations.	Applying (3)

Mapping of CLO with PO and PSO

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes(PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CLO1	H	M	M		M											
CLO2	H	M			M							L				
CLO3	H	M	M		M											
CLO4	M	M	M		M							L				

H: High, M: Medium, L: Low