



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned				
		L	T	P	L	T	P	Total	
TEITL504	Advanced Database Management Systems Lab	--	--	2	--	--	1	1	
		Examination Scheme							Total
		ISE		ESE		Total			
		40		Practical			Oral		60

Pre-requisite Course Codes	IT43 (Database Management Systems) TEITC504 (Advanced Database Management Systems)
After successful completion of the course, student will be able to:	
Course Outcomes	CO1 Solve complex queries using SQL to retrieve and manipulate information in a database.
	CO2 Demonstrate Distributed databases concepts and Object oriented database concepts.
	CO3 Analyze the importance of enterprise data and be able to organize data to perform analysis on the data and take strategic decisions.
	CO4 Design and implement real life applications integrated with database systems

Exp. No.	Experiment Details	Ref.	Marks
1	Perform practical by using Basic SQL statements and joining tables	1,2	5
2	For a given problem implement the Vertical and Horizontal Fragmentation.	1,2	5
3	Perform a practical for database security using SQL Injection.	1,2	5
4	Demonstrate the Transaction and concurrency control	1,2	5
5	Perform Practical using Object oriented queries.	1,2	5
6	Perform practical to understand the concepts of Data Replication	5	5
7	Study of OLAP tools and perform OLAP operations.	3,4	5
8	Mini Projects	1,2,5	5
Total Marks			40

References:

1. Elmasri and Navathe, “*Fundamentals of Database Systems*”, 6th Edition, PEARSON Education.
2. Korth, Silberchatz, Sudarshan, “*Database System Concepts*”, 6th Edition, McGraw – Hill
3. Theraja Reema, “*Data Warehousing*”, Oxford University Press, 2009
4. Ralph Kimball, Margy Ross, “*The Data Warehouse Toolkit: The Definitive Guide To Dimensional Modeling*”, 3rd Edition. Wiley India.
5. M. Tamer Ozu “*Principles of Distributed Database Systems*”, Pearson Education