



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	
ITL43	Database Management System Lab	-	-	2	-	-	1	1	
		Examination Scheme							Total
		ISE		ESE		Total			
				Practical	Oral				
		40	-	20	60				

Pre-requisite Course Codes	IT33 (Discrete Structures) IT43 (Database Management System)	
After successful completion of the course, student will be able to:		
Course Outcomes	CO1	Design a relational database for real world system.
	CO2	Apply SQL commands on database.
	CO3	Execute various transaction and recovery commands over database.
	CO4	Examine effect of concurrency control on database.

Assign a case study for group of 2/3 students and each group to perform on their case study following experiments.

Expt. No.	Experiment Details	Ref.	Marks
1	Create a database for real world system. <ul style="list-style-type: none"> E-R Diagram Mapping of E-R to relational Model Perform database administration related commands DCL 	1,2	5
2	Build a database and populate using SQL. <ul style="list-style-type: none"> DDL DML 	1,2	5
3	Perform various nested queries on database. <ul style="list-style-type: none"> JOIN 	1,2	5
4	Create a reports using view.	1,2	5
5	Perform TCL and Store procedure on database	1,2	5
6	Examine integrity of database using Assertion and Triggers	1,2	5
7	Examine the consistency of database using various concurrency control techniques. <ul style="list-style-type: none"> Creation of serializability schedule. 	1,2	5
8	Check for deadlock condition over database	1,2	5
Total Marks			40

References:

- Sharaman Shah, "Oracle for Professional", 1st edition, SPD, 2013.
- Dr. P.S.Deshpande, "SQL & PLSQL for oracle-10g" Black Book, 2007 edition, Dreamtech publishing.