

Course code	Course Title	L	T	P	C
PMDS506P	DATABASE MANAGEMENT SYSTEMS LAB	0	0	2	1
Pre-requisite	NIL	Syllabus version			
		1.0			
Course Objectives					
1. To understand the concepts of SQL commands. 2. To comprehend the concepts of PL/SQL. 3. To explore the concepts of NoSQL using MongoDB.					
Course Outcomes					
At the end of the course the student should be able to: 1. Perform SQL and PL/ SQL queries. 2. Implement the MongoDB methods, insert, update, delete operations in a NoSQL database					
List of Challenging Experiments					
1.	Basic SQL Commands (DDL, DML, DCL ,TCL and Constraints)				
2.	Operators, Views and Functions				
3.	Joins and Subqueries				
4.	PL/SQL Introduction and Control Structures				
5.	Exception handling				
6.	Functions and Procedures				
7.	Cursors and Triggers				
8.	Basics of MongoDB, Methods and operators				
9.	Working with documents and collections				
10.	Indexing in MongoDB				
Total Laboratory hours		30 hours			
Text Book(s)					
1	Manu sharma, MongoDB Complete Guide, 2021, BPB Publications.				
2	David Hows, Peter Membrey , Eelco Plugge, DUPTim Hawkins, The Definitive Guide to MongoDB: A complete guide to dealing with Big Data using MongoDB, 2015, Aress.				
Reference Book(s)					
1	Rick Copeland, MongoDB Applied Design Patterns: Practical Use Cases with the Leading NoSQL Database, 2013, O'Reilly.				
2	Amit Phaltankar, Juned Ahsan, Michael Harrison and Liviu Nedov, MongoDB Fundamentals, A hands-on guide to using MongoDB and Atlas in the real world, 2020, Packt Publishing				
Mode of assessment		Digital Assignment and FAT			
Recommended by Board of Studies		15.02.2024			
Approved by Academic Council		No. 73	Date	14-03-2024	