

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					
Indicative 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 evaluation		Assignment and FAT			
Recommended by Board of Studies		15-02-2024			
Approved by Academic Council		No. 73	Date	14-03-2024	