



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - DATA SCIENCE

Lesson Plan & Work-done Diary for AY: 2025-26, Even Semester

Course with Code:Mango DB BDSL456D				Faculty: Dr.Neethi M V		Semester & Section:6 'A'	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
1.		a. Illustration of Where Clause, AND, OR operations in MongoDB. b. Execute the Commands of MongoDB and operations in MongoDB: Insert, Query, Update, Delete and Projection. (Note: use any collection).	Chalk & Talk PPT			Chalk & Talk PPT	
2.		a. Develop a MongoDB query to select certain fields and ignore some fields of the documents from any collection. b. Develop a MongoDB query to display the first 5 documents from the results obtained in a.[use of limit and find]	Chalk & Talk PPT			Chalk & Talk PPT	
3.		a. Execute query selectors (comparison selectors, logical selectors) and list out the results on any collection b. Execute query selectors (Geospatial selectors, Bitwise selectors) and list out the results on any collection	Chalk & Talk PPT			Chalk & Talk PPT	
4.		Create and demonstrate how projection operators (\$, \$elematch and \$slice) would be used in the MongoDB.	Chalk & Talk PPT			Chalk & Talk PPT	
5.		Execute Aggregation operations (\$avg, \$min, \$max, \$push, \$addToSet etc.). Encourage students to execute several queries to demonstrate various aggregation operators.	Chalk & Talk			Chalk & Talk PPT	



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			PPT				
6.		Execute Aggregation Pipeline and its operations (pipeline must contain \$match, \$group, \$sort, \$project, \$skip etc. students encourage to execute several queries to demonstrate various aggregation operators).	Chalk & Talk PPT			Chalk & Talk PPT	
7.		a. Find all listings with listing url, name, address, host picture url in the listings And Reviews collection that have a host with a picture url. b. Using E-commerce collection write a query to display reviews summary.	Chalk & Talk PPT			Chalk & Talk PPT	
8.		a. Demonstrate creation of different types of indexes on collection (unique, sparse, compound and multikey indexes) b. Demonstrate optimization of queries using indexes.	Chalk & Talk PPT			Chalk & Talk PPT	
9.		a. Develop a query to demonstrate Text search using catalog data collection for a given word b. Develop queries to illustrate excluding documents with certain words and phrases.	Chalk & Talk PPT			Chalk & Talk PPT	
10.		Develop an aggregation pipeline to illustrate Text search on Catalog data collection..five main areas.	Chalk & Talk PPT			Chalk & Talk PPT	