



## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

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

Course with Code: MONGO DB				Faculty: Ms. Likitha D			Semester & Section:	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	ClassNo.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
<b>MODULE-1</b>								
1.	B3:2-3-26 B1:4-3-26 B2:5-3-26	Illustration of Where Clause, AND,OR operations in MongoDB. <b>a.</b> Execute the Commands of MongoDB and operations in MongoDB : Insert, Query, Update, Delete and Projection. (Note: use any collection).	PPT Chalk & Talk	1				
2.	B3:9-3-26 B1:11-3-26 B2:12-3-26	<b>a.</b> Develop a MongoDB query to select certain fields and ignore some fields of the documents from any collection. <b>b.</b> Develop a MongoDB query to display the first 5 documents from the results obtained in a. [use of limit and find].	PPT Chalk & Talk	2				



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3.	B3:16-3-26 B1:18-3-26 B2:26-3-26	a)Execute query selectors (comparison selectors, logical selectors) and list out the results on any collection  Execute query selectors (Geospatial selectors, Bitwise selectors ) and list out the results on any collection.	PPT Chalk & Talk	3				
4.	B3:23-3-26 B1:25-3-26 B2:9-4-26	Create and demonstrate how projection operators (\$, \$selematch and \$slice) would be used in the MondoDB.	PPT Chalk & Talk	4				
5.	B3:6-4-26 B1:8-4-26 B2:16-4-26	Execute Aggregation operations (\$avg, \$min,\$max, \$push, \$addToSet etc.). students encourage to execute several queries to demonstrate various aggregation operators).	PPT Chalk & Talk	5				
6.	B3:13-4-26 B1:15-4-26 B2:23-4-26	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)	PPT Chalk & Talk	6				



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7.	B3:27-4-26 B2:22-4-26 B1:30-4-26	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>b.</b> Using E-commerce collection write a query to display reviews summary.	PPT Chalk & Talk	7				
8.	B3:4-5-26 B2:29-4-26 B1:7-5-26	a.Demonstrate creation of different types of indexes on collection (unique, sparse, compound and multikey indexes) using indexes. <b>b.</b> Demonstrate optimization of queries	PPT Chalk & Talk	8				
9.	B3:18-5-26 B2:6-5-26 B1:14-5-226	a.Develop a query to demonstrate Text search using catalog data collection for a given word <b>b.</b> Develop queries to illustrate excluding documents with certain words and phrases	PPT Chalk & Talk	9				
10.	1-6-26 13-5-26 21-5-26	Develop an aggregation pipeline to illustrate Text search on Catalog data collection.	PPT Chalk & Talk	10				



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	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes/Self-study	3		
3	Tutorials/ Extra classes	2		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
<b>Planning</b>			<b>Execution</b>	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	