Electronics and Computer Science
(Academic Year :2023-2024)

Practical Plan	
Class: BE ECS	**Weekly Schedule:**
Course name/code: Big data Analytics Lab/ECL 703	Batch A: 11.00-1.00pm
Academic Year: 2023-24	Batch B: 11.00-1.00pm
Name of the teacher:Prajakta Bhangale	

Course Outcomes (CO): *At the End of the course students will be able to*	
CO.1	Develop problem solving and critical thinking skills in fundamental enabling techniques like Hadoop,Mapreduce and NoSQL in big data analytics.
CO.2	Collect, manage, store, query and analyze various forms of Big Data
CO.3	Interpret business models and scientific computing paradigms, and apply software tools for big data analytics.

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Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

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Website : www.frcrce.ac.in • Email : crce@fragnel.edu.in

CO.4	Adapt adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc.

Lab Plan

Sr. No.	Title of experiment	Software/Hardware	LAB Outcome	Batch	Planned date	Actual date	Remark
1	Installation of Hadop, eclipse plugin configuration for hadoop and hadoop ecosystem	**Software**	LO1	A	25/7		
				B	27/7		
2	Counting number of words in given text file using map reduce	**Software**	LO1	A	22/8		.
				B	17/8		
3	Find year-wise maximum temperature from the given dataset using map-reduce.	**Software**	LO1	A	5/9		.

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				B	24/8		
.4	Perform matrix multiplication using one step map-reduce.	. **Software**	**LO1**	A	12/9		.
				B	7/9		
5	Perform CRUD operations in MongoDB.	**Software**	**LO2**	A	1/8,8/8		
				B	3/8,10/8		
6	Implement K-means algorithm clustering algorithm.	**Software**	**LO2**	A	26/9		
				B	14/9		
7	Find out frequent itemsets using the Apriori algorithm.	**Software**	**LO3**	A	3/10		
				B	5/10		
8	Demonstration of Movie recommendation system based on ratings.	**Software**	**LO4**	A	10/10		
				B	12/10		
9	MINI Project(correction and presentation)	**Software**	**CO5**	A	10/10		
				B	12/10		

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Course Instructor: Prof. Prajakta Bhangale