Fr. Conceicao Rodrigues College of Engineering

Father Agnel Ashram, Bandstand, Bandra –west, Mumbai-50

Department of Computer Engineering

Practical Plan

Class: BE COMP A	**Weekly Schedule:**
Course name/code: CSL702	**Batch A:Friday 8:45 to 10:45 AM**
Academic Year: 2023-24	**Batch B: Thursday 8:45 to 10:45 AM**
Name of the teacher Prof.Ankita Amburle	**Batch C: Wednesday 8:45 to 10:45 AM**
	Batch D: Tuesday 8:45 to 10:45 AM

Course Outcomes: *Upon completion of this course students will be able to:*

1. To interpret business models and scientific computing paradigms, and apply software tools for big data analytics.
2. To implement algorithms that uses Map Reduce to apply on structured and unstructured data
3. To perform hands-on NoSQL databases Cassandra,Neo4j, MongoDB
4. To implement DGIM streams algorithms and clustering algorithms using Big data techniques.
5. To develop and analyze the social network graphs with data visualization techniques.

Sr. No.	Title of experiment	Course Outcomes	Batch	Planned date	Actual date	Remark
1	Study and Installation of Hadoop.	CO1	A	28/7/2023		
			B	27/7/2023		
			C	26/7/2023		
			D	25/7/2023		
2	Hands on Hadoop HDFS	CO1,CO2	A	4/8/2023		.

			B	3/8/2023		
			C	2/8/2023		
			D	1/8/2023		
3	Write a program to implement **Word Count** using Map Reduce.	.CO2	A	11/8/2023		.
			B	10/8/2023		
			C	9/8/2023		
			D	8/8/2023		
4	Write a program to implement **Matrix Multiplication** algorithm using Map Reduce..	.CO2	A	18/8/2023		.
			B	17/8/2023		
			C	23/8/2023		
			D	22/8/2023		
5	Write a program to insert, search, update, delete and aggregate data using **MongoDB** NoSQL Database.	CO3	A	18/8/2023		
			B	17/8/2023		
			C	23/8/2023		
			D	22/8/2023		
6	Write a command to perform insert, create, update and delete Cassandra (NoSQL) database.	CO3	A	25/8/2023		
			B	24/8/2023		
			C	6/9/2023		
			D	5/9/2023		
7	Create social graphs using NEO4J database	CO3	A	25/8/2023		
			B	24/8/2023		
			C	6/9/2023		
			D	5/9/2023		
8	Data stream Algorithm: Implement DGIM Algorithm using any programming language.	CO4	A	15/9/2023		
			B	14/9/2023		
			C	13/9/2023		

			D	12/9/2023		
9	Write a program to implement k-Means algorithm using any programming language.	CO4	A	29/9/2023		
			B	5/10/2023		
			C	27/9/2023		
			D	26/9/2023		
10	Write a program to perform **Twitter data/Healthcare data** analysis using R language.	CO5	A	6/10/2023		
			B	5/10/2023		
			C	4/10/2023		
			D	3/10/2023		
11	**Mini Project:** One real life large data application using standard dataset		12/10/2023			