



BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(An Autonomous Institute, Affiliated to VTU Belagavi)

DEPARTMENT OF MCA

(Accredited by NBA, New Delhi)

ASSIGNMENT-2, AUGUST 2023

Subject: Big Data Analytics

Subject Code: 22MCA2052

Semester: II

Max. Marks: 5 Marks

Last Date for submission: 16.09.2023

Staff: Dr. P.Ganesh

Instructions: 1. Answer all questions.
2. Answers should be precise.

| Q. No | Question | CO | K - level |
|---|--|----------|-----------|
| 1 | Discuss any 5 Big Data Technologies available today. | CO1 | K2 |
| 2 | Compare and contrast Hadoop with Spark. | CO3, CO4 | K2 |
| 3 | Develop a Python program to perform MapReduce on a given dataset to determine wordcount of a given text stream. | CO3 | K3 |
| Course outcomes: At the end of this course students will be able to | | | |
| 1 | Identify the business problem for a given context and frame the objectives to solve it using data analytics tools. | | |
| 2 | Differentiate various types of analytics algorithms and context of their application. | | |
| 3 | Illustrate the architecture of HDFS and MapReduce. | | |
| 4 | Explore Spark architecture and its language APIs. | | |
| 5 | Write Hive queries against large datasets on clusters. | | |

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|---------------|-----------------|-------------|
| K1 - Remember | K2 - Understand | K3 - Apply |
| K4 - Analyze | K5 - Evaluate | K6 - Create |