

MBA436: BIG DATA ANALYTICS

| Teaching Scheme | Examination Scheme |
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| Lectures: 4 hrs/Week Tutorials: 1 hrs/Week Credits: 4 | Class Test -12Marks Teachers Assessment - 6Marks Attendance – 12 Marks End Semester Exam – 70 marks |

Course Objectives:

- Understand the Big Data Platform and its Use cases
- Provide an overview of Apache Hadoop
- Provide HDFS Concepts and Interfacing with HDFS
- Understand Map Reduce Jobs
- Provide hands on Hadoop Eco System
- Apply analytics on Structured, Unstructured Data.
- Exposure to Data Analytics with R

Hours: 40

UNIT I (10 Hrs): Introduction to Big Data Analytics, DBMS Overview, Introduction to R and RStudio, Basic analysis in R, Intermediate R, Intermediate analysis in R.

UNIT II (10 Hrs): Visualization and Data Exploration, K-means Clustering, Independent Sample Tests, Basic Association Analysis, Association Rule Speedup, Linear regression part 1, Linear regression part 2, Logistic regression.

UNIT III (10 Hrs): Naïve Bayes, Decision trees part 1, Decision trees part 2, Introduction to Hadoop and HDFS, Using R with Hadoop, First R/Hadoop program, Intermediate R/Hadoop programming

UNIT IV (10 Hrs): Pig, Hive, and HBase, Discussion of mr2 Project, Support Vector Machines Part 1, Support Vector Machines Part 2

Suggested Readings:

1. Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses by Michael Minelli, Michele Chambers, Ambiga Dhiraj, by, Wiley
2. The Culture of Big Data, Mike Barlow, by Oreilly
3. Real time Big Data Analytics; Emerging Architecture, Mike Barlow, by Oreilly
4. Planning for Big Data, Edd Dumbill, by Oreilly
5. Big Data Analytics; Frank J. Ohlhorst, by Wiley

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