

## **CAP457:INTRODUCTION TO BIG DATA - LABORATORY**

**Course Outcomes:** Through this course students should be able to

- CO1 :: apply big data technology in data analysis
- CO2 :: tabulate the use of various framework of big data analysis
- CO3 :: understand the working with virtual box and cloudera
- CO4 :: assess the usage of different platform

### **List of Practicals / Experiments:**

#### **Introduction to Big Data**

- Big Data and its importanceFour V's in Big Data

#### **Introduction to Big Data Tools**

- Introduction about Tools used in Big Data Analysis

#### **Introduction to Virtual Box**

- learning usage of virtualboxinstalling and working with virtualbox

#### **Introduction to Cloudera**

- Learning about other open source software related to Hadoop and Installing Cloudera

#### **Introduction to Hadoop Administration**

- Hadoop - Environment SetupHadoop - HDFS Overview

#### **Hadoop Architecture**

- Learn how HDFS works Hadoop Architecture and Understanding the main Hadoop component

**Text Books:** 1. BIG DATA FUNDAMENTALS by THOMAS ERL, PEARSON

**References:** 1. MINING OF MASSIVE DATASETS by JURE LESKOVEC, ANAND RAJARAMAN, JEFF ULLMAN, STANFORD UNIVERSITY PRESS