BIG DATA ENGINEERING LAB USING HADOOP
(Common to CSE&IT)

IV B. Tech. - I Semester	**L**	**T**	**P**	**C**
Course Code: A3CS35	**-**	**-**	**3**	**2**

WEEK 1
- i) Basic Linux Commands
- ii) Understanding how to connect to remote Linux server using putty kind of tool.

WEEK 2
- i) Understanding VMware player setup and configuring Cloudera Bundle using player.
- ii) Basic HDFS commands

WEEK 3
- i) HDFS commands in detail
- ii) Hadoop File System navigation and manipulation using commands

WEEK 4
- i) MapReduce Job submission to Hadoop Cluster from command line
- ii) WordCount MapReduce Job Development using eclipse IDE, packing and testing

WEEK 5
- i) Undersating weather dataset.
- ii) MapReduce Job to process weather datasets of different years.

WEEK 6
- i) Using pig grunt shell.
- ii) Practicing pig commands from grunt shell.

WEEK 7
- i) Writing pig scripts and running them.
- ii) Processing different datasets using pig.

WEEK 8
- i) Hive shell Writing basic Hive queries
- ii) Hive DDL and DML.

WEEK 9
- i) Using Hive to perform CRUD operations-Databases,Tables,Views,Functions and Indexes.

WEEK 10
- i) Working with sqoop commands to import and export data between HDFS and RDBMS.
- ii) Working with sqoop to import data directly into hive tables

WEEK 11
- i) Working with Flume to ingset data from webserver logs or Social Media site like twitter.

WEEK 12
- i) **Working with Oozie to create workflow and run them.**