Diploma, Anna University-UG, PG., HSC & SSLC

Notes Syllabus Question Papers Results and Many more... Available @

www.AllAbtEngg.com

CP5261 DATA ANALYTICS LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To implement Map Reduce programs for processing big data
- To realize storage of big data using H base, Mongo DB
- To analyse big data using linear models
- To analyse big data using machine learning techniques such as SVM / Decision tree classification and clustering

LIST OF EXPERIMENTS

Hadoop

- 1. Install, configure and run Hadoop and HDFS
- 2. Implement word count / frequency programs using MapReduce
- 3. Implement an MR program that processes a weather dataset R
- 4. Implement Linear and logistic Regression
- 5. Implement SVM / Decision tree classification techniques
- 6. Implement clustering techniques
- 7. Visualize data using any plotting framework
- 8. Implement an application that stores big data in H base/ MongoDB/ Pig using Hadoop/R.

REFERENCES

- Alan Gates and Daniel Dai, "Programming Pig Dataflow scripting with Hadoop", O'Reilley, 2nd Edition, 2016.
- Gareth James, Daniela Witten, Trevor Hastie and Robert Tibshirani, —An Introduction to Statistical Learning with Applications in RI, Springer Publications, 2015(Corrected 6th Printing)
- Hadley Wickham, Ilggplot2 Elegant Graphics for Data Analysisll, Springer Publications,2nd Edition, 2016
- Kristina Chodorow, "MongoDB: The Definitive Guide Powerful and Scalable Data Storage", O'Reilley, 2nd Edition, 2013.
- 5. Lars George, "HBase: The Definitive Guide", O'Reilley, 2015.
- Tom White, —Hadoop: The Definitive Guide Storage and Analysis at Internet Scalell, O'Reilley, 4th Edition, 2015.