



**Dempo Charities Trust's  
DHEMPE COLLEGE OF ARTS & SCIENCE  
Miramar, Panaji-Goa**

**Hadoop**

**[2 Credits 30 hours]**

**Course Objective:**

The course is intended to prepare the students for analysis of big data using Hadoop Distributed File System

**Learning Outcome:**

The students will be able to analyse big data using Hadoop Distributed File System.

**Course Contents**

1. Big data : What is Big Data? ,Human Generated Data and Machine Generated Data ,Where does Big Data come from ,Examples of Big Data in the Real world ,Challenges of Big Data, Taming Big Data(5)
2. Hadoop and Big Data : How Hadoop solves the Big Data problem ,Business Case for Hadoop, Hadoop for Executives, Hadoop for Developers (5),.
3. Soft Introduction to Hadoop: Hadoop = HDFS + Map Reduce ,Why Hadoop? ,Meet the Hadoop Zoo, Hadoop alternatives ,Alternatives for distributed massive tions ,Arguments for Hadoop(6)
4. Hadoop Distributed File System (HDFS) -- Introduction ,HDFS Concepts ,HDFS Architecture ,Introduction To MapReduce ,How I failed at designing distributed processing ,(4)
5. MapReduce : How MapReduce really does it ,Understanding Mappers and Reducers ,Who invented this? ,The benefits of MapReduce programming ,(5)
6. Hadoop Use Cases and Case Studies ,Politics ,Data Storage , Financial Services ,(5)

**Reference:**

1. Tom White, Hadoop the definitive guide

*Shilpa*  
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