

*Dear Student,*

*Based upon your enquiry we are pleased to send you the course curriculum for Hadoop*

*Given below is the brief description for the course you are looking for:*

## **Module 1:- Big Data and Hadoop**

- Introduction of Big Data
- Example of Big Data
- Introduction of Hadoop
- Advantage and Disadvantage of Hadoop

## **Module 2:- Hadoop Component**

- Hadoop Architecture
- Hadoop installation
- HDFS
- MapReduce
- Concept of NameNode(Master Node), Data Node(Slave Node) and Secondary Node
- Concept of Task Tracker and Job Tracker
- Read and Write data on HDFS

## **Module 3:- Hadoop Cluster Configuration**

- Hadoop Cluster Configuration File
- Data Loading in Hadoop using SQOOP
- Import and Export using SQOOP
- Eval, options-file using SQOOP
- Hadoop single node and multi node configuration

- Hadoop Commands

## **Module 4:- MapReduce**

- Introduction of MapReduce
- MapReduce Data types and their use
- MapReduce Program writing and execution using Java
- Mapper class, Reducer class and Driver code
- Input Format and Output format
- Distributed Cache in MapReduce
- Splits and blocks
- Combiner and Practitioner
- Counters
- Junit and MRUnit Testing Tools

## **Module 5:- Hive and HiveQL**

- Introduction of Hive and HiveQL
- Difference between Hive and RDBMS
- Hive Installation
- Commands creation and execution using HiveQL
- Hive DDL, DML and SQL
- UDF and UDAF

## **Module 6:- Hbase and NoSQL**

- Hbase introduction and Architecture
- Hbase DataModel and Master
- Introduction of NoSQL Database
- Difference between NoSQL and RDBMS

- Commands using NoSQL
- Key Values Concept in NoSQL

## **Module 7:-Pig**

- Introduction of Pig and PigLatin
- Pig Latin scripts writing and Execution
- Pig Latin Data Types
- UDF

## **Module 8:- Zookeeper and Yarn**

- Introduction of Zookeeper
- Data Model
- Installation of Zookeeper
- Zookeeper use cases
- Introduction of Yarn and its Architecture
- Difference between classic and yarn
- Capacity scheduler

*Duration:-40 Hours*

### **Trainer Profile:-**

- 5+ Years' Experience in Software development.
- Having 2+ Experience in Hadoop and currently part time associated with the company as a Hadoop Developer.
- Involved in Corporate Training from last 4 Years.
- Till Now Trained 100+ Students for Hadoop.



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**Online Tutorial Prepared by Trainer:-**

<http://tutorial.techaltum.com/hadoop-tutorial.html>

Tech Altum