

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
- > 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

Installation of Hadoop and Cluster Configuration

- Linux installation
- > Hadoop Installation
- Hadoop Cluster Configuration File

Data Loading using Commands, SQOOP and Flume





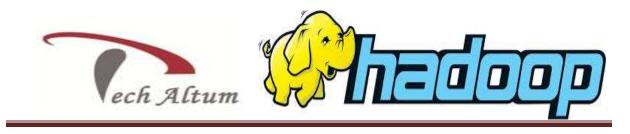
- Hadoop Commands to Load Data
- Installation of SQOOP
- Sqoop Architecture
- Data Loading in Hadoop using SQOOP
- Import and Export using SQOOP
- What is Flume
- Data Loading using Flume

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

Hive and HiveQL

- Introduction of Hive and HiveQL
- ➤ Hive Architecture & Components
- Difference between Hive and RDBMS
- ➤ Hive Installation
- Commands creation and execution using HiveQL
- > Joins



- Hive DDL, DML and SQL
- UDF and UDAF

Hbase and NoSQL

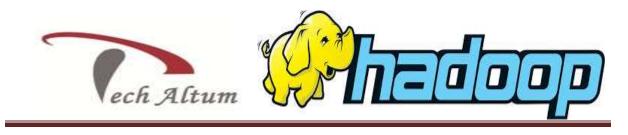
- Hbase introduction and Architecture
- Hbase DataModel and Master
- ➤ Introduction of NoSQL Database
- Difference between NoSQL and RDBMS
- Commands using NoSQL
- Key Values Concept in NoSQL

Pig

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

Zookeeper and Yarn

- > Introduction of Zookeeper
- Installation of Zookeeper
- Zookeeper use cases
- Hadoop 1.0 and Map Reduce Limitations
- Introduction of Yarn and its Architecture
- Difference between classic and yarn
- Capacity scheduler



Duration:-40 Hours

Trainer Profile:-

- ➤ MCA Qualified and 9+ Years' Experience in IT Field.
- ➤ Involved in Corporate Training from last 6 Years.

