

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.

Tech Altum