National Institute of Electronics & Information Technology
Gorakhpur – Extension Centre Lucknow
(Under Ministry of Electronics and Information Technology, Govt. of India)
MMMUT Campus, Deoria Road, Gorakhpur-273010
http://www.nielit.gov.in/gorakhpur/index.php

Certificate course in Big Data using Hadoop

4 Weeks (60 Hrs.)

Course in Big Data using Hadoop

4 Weeks Online Course

Objective

The Big Data Hadoop Training Course is proposed to give all around learning of the Big Data framework using Hadoop, HBase, Hive, Sqoop and PIG. After the completion of this course students may work as a Big Data Analyst , Big Data Consultant, Manager etc.

Eligibility

B.E./B.Tech., M.Sc.(IT/ computer Science), MCA, BCA, PGDCA, DOEACC A, B level, Three Years Diploma in Computer Science.

Prerequisite

- ✓ Candidate must have latest computer/laptop with preferably 16 GB RAM and Operating System of 64bit.
- ✓ Software: Notepad, JDK, Eclipse 64 Bit, Cloudera Hadoop (can be downloaded from respective websites).
- ✓ Internet connection with good speed *(preferably 2 Mbps or higher)*

Course Fees

Rs. 3000/- incl. GST& all other charges

Certificate

Certificate will be provided to the participants, based on minimum 75% attendance and on performance (minimum 50% marks) in the online test, conducted at the end of the course.

Methodology

- ✓ Instructor-led live classes.
- ✓ Instructor-led hands-on lab sessions.
- ✓ Content Access through e-Learning portal.
- ✓ Assessment and Certification

How to Apply?

Step-1: Read the course structure & course requirements carefully.

Step-2: Visit the Registration portal and click on apply button.

Step-3: Create your login credentials and fill up all the details, see the preview and submit the form.

Step-4: Login with your credentials to verify the mobile number, email ID and then upload the documents, Lock the profile and Pay the Fees online, using ATM-Debit Card / Credit Card / Internet Banking / UPI etc.

National Institute of Electronics & Information Technology
Gorakhpur – Extension Centre Lucknow

(Under Ministry of Electronics and Information Technology, Govt. of India)
MMMUT Campus, Deoria Road, Gorakhpur-273010
http://www.nielit.gov.in/gorakhpur/index.php

Course Content

Day	Topic	Day	Topic	Day	Topic
Day #01	Big Data Overview, What is Big Data?, Benefits of Big data,What is Hadoop? prerequisites	Day #02	What is Java, What is JVM, What is JRE & JDK Java Keywords & Operators,Data types & Variables	Day #03	Conditional and loop Statements in Java OOPS Concepts,What is class and object
Day #04	Methods in java, new Keyword in java, Method overloading,What is Constructor and its types.	Day #05	Static keyword ,this keyword Inheritance and its types	Day #06	Polymorphism in Java and its types Dynamic method dispatch, super keyword final keyword
Day #07	Abstraction in Java, abstract class and interface	Day #08	Packages and types Access Modifier Encapsulation	Day #09	Exception Handling User defined and InBuilt types
Day #10	Hadoop Fremework, Modules of Hadoop, Mapreduce, Mapreduce Job, Mapper, Reducer	Day #11	Mapreduce Data Flow, HDFS Hadoop Command, Namenode, Datanode, YARN Hadoop Installation through Virtual Machine and Cloudera	Day #12	What is HBase, Difference between HBase and HDFS, StorageMechanism in HBase
Day #13	HBase Architecture, HBase Shell, Different HBase Commands	Day #14	What is Hive? Characteristicsof Hive Hive vs RDMS, Hive Architecture Storage and Computing Job ExecutionFlow	Day #15	Data types in Hive, Table Types-Internal and External Commands in Hive Beeline
Day #16	What is Sqoop?, Creating MySql Table, Adding Information to MySql, Import Table MySql to Hadoop using Sqoop	Day #17	Sqoop import command with target directory Sqoop import list database Sqoop Export	Day #18	What is Apache Pig, Need of Apache Pig, Pig vs Mapreduce, Pig vs Hive, Pig Architecture, Pig Components
Day #19	Pig Latin Data Model, Pig Execution Mechanism, Grunt Shell, Pig Latin Statement, Data Types, Reading Data	Day #20	Loading into Apache Pig using LOAD operator, Diagnostic Operators,Group Operators, Join Operator, Cross Operator, Union Operator, Split Operator, Filter Operator, Text Loader		

Course Coordinator

Smt. Archana Tripathi (P.T.O)

NIELIT Gorakhpur
Email: archana@nielit.gov.in
Mobile Number: 8317093889

CLICK HERE TO REGISTER