

NIELIT Virtual Academy

IT13 Certificate course in Hadoop Fundamentals (Big Data)

Course Objective:

Today, Data is the most valuable resource. With exponential growth of data in digital era along with rapid growth through advanced technologies, handling Big data is a challenge to businesses. Existing tools are inadequate to process such large data sets. Hadoop is an open source framework that is used to efficiently store and process large datasets ranging in size from gigabytes to petabytes of data. Instead of using one large computer to store and process the data, Hadoop allows clustering multiple computers to analyze massive datasets in parallel more quickly. A working knowledge of Hadoop is a must for anyone who wants to start a career in Data Engineering, Big Data, etc., .

This course is to help you learn the foundation and also understand Hadoop at an advanced level. In the process, you become familiar with many Big data concepts which will increase the career opportunity for candidates and bridge the gap of Skilled Human requirements for the Industry.

Eligibility: Any Graduate

Methodology:

- ✓ Online
- ✓ 24x7 Content Access through e-learning portal
- ✓ Covers both Theory & Practical
- ✓ Assessment and Certification

Registration Link: <http://nva.nielit.gov.in>

Contact Number: 7598730125

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MODULE 1

Introduction to Big data	Day 1-2
<ul style="list-style-type: none"> • What is Big data, • 5 v's of Big data, • Big data tools 	
Hadoop fundamentals	Day 3-4
<ul style="list-style-type: none"> • Introduction to Hadoop Ecosystem • Compare Hadoop vs. traditional systems • Hadoop Architecture 	
Hadoop architecture	Day 5-9
<ul style="list-style-type: none"> • Hadoop 3.x Architecture 	

Module 2

HDFS	Day 10-14
<ul style="list-style-type: none"> • Core Components of Hadoop • HDFS Architecture • HDFS role in Hadoop • Features of HDFS • Name node, Data node • Secondary Name Node • Job Tracker, Task Tracker • Anatomy of File Write & File Read • Network Topology • Heartbeat Signal • How to Store the Data into HDFS • How to Read the Data from HDFS 	
YARN	Day 15-19
<ul style="list-style-type: none"> • YARN service • YARN vs MapReduce 	
Map Reduce	Day 20-22
<ul style="list-style-type: none"> • Overview of MapReduce Framework 	

Module 3

Practical	Day 23-24
Project Assignment	Day 25-28
Project Evaluation	Day 29-30