



LIVE LECTURES

# DIPLOMA IN BIG DATA TECHNOLOGY

Live Course (Live Lectures)

## COURSE OVERVIEW

This course offers core concepts behind big data problems, applications, and systems. It is for those who want to start thinking about how Big Data might be useful in their business or career. This course covers the framework Hadoop, which has made big data analysis easier and more accessible increasing the potential for data to transform into information.

## COURSE OBJECTIVE

Big data enables you to gather data from social media, web visits, call logs, and other sources to improve the interaction experience and maximize the value delivered. Start delivering personalized offers, reduce customer churn, and handle issues proactively.

## SKILLS YOU WILL LEARN

Programming languages, Machine learning, AI, and Natural Language Processing (NLP), Quantitative analysis, Data mining, Problem-solving, SQL and NoSQL databases, Data Structure and algorithms, Interpretation, and data visualization.

## COURSE SKILL SET

- Diploma in Big Data Technology
- DBMS/RDBMS/SQL/NoSQL
- Web Application Development
- Cloud Computing in Big Data
- Big Data And Hadoop
- Deep Dive Into Apache Spark and Scala
- MangoDB
- Hadoop Practice Guide
- Big Data Analysis with SQL



## PROGRAM HIGHLIGHTS

- Instructor- Dr. Priti Maheshwary | / Dr. Pooja Bijlani
- Duration- 1 Year
- Eligibility- Any graduate with a Science stream
- No. of Modules - 33
- Placement training- Yes
- Language-English
- Shareable certificate- Yes
- Webinar- Yes

## PROGRAM SYLLABUS

### Paper 1

## DIPLOMA IN BIG DATA TECHNOLOGY

Chapter 1 - Introduction To Data

Chapter 2 - Data Processing

Chapter 3 - Control Program for Microcomputer or Microsoft Excel

Chapter 4 - Statistics Data Analysis

Internal Assessment

### Paper 2

## DBMS/RDBMS/SQL/NOSQL

Chapter 1 - Data Base Management System

Chapter 2 - Relational DataBase Management System

Chapter 3 - Structure Query Language

Video Lecture

Internal Assessment

### Paper 3

## WEB APPLICATION DEVELOPMENT

Chapter 1 - Web Design

Chapter 2 - Java

Chapter 3 - Eclipse

Video Lecture

Internal Assessment

### Paper 4

## CLOUD COMPUTING IN BIG DATA

Chapter 1 - COMPONENTS

Chapter 2 - UNIT- 2 IOT COMMUNICATION

Chapter 3 - UNIT- 3 PURPOSE & REQUIRMENT

Chapter 4 - UNIT- 4 CLOUD

Chapter 5 - UNIT- 5 IOT PLAT FORMS

Video Lecture

Internal Assessment

### Paper 5

## BIG DATA AND HADOOP

Chapter 1 - Introduction Of Big Data

Chapter 2 - Big Data Key Technology

Chapter 3 - A Read Of Hadoop

Chapter 4 - Hadoop Programming

Video Lecture

Internal Assessment

### Paper 6

## DEEP DIVE INTO APACHE SPARK AND SCALA

Chapter 1 - Apache Spark and Scala

Chapter 2 - Apache Spark Framework

Chapter 3 - DataFrames and Spark SQL

Chapter 4 - Machine Learning using Spark Mllib

Internal Assessment

### Paper 7

## MANGODB

Chapter 1 - Conect to MongoDB

Chapter 2 - MongoDB Security, Backup

Video Lecture

Internal Assessment

### Paper 8

## Hadoop Practice Guide

Chapter 1 - Hbase

Chapter 2 - Hive

Chapter 3 - Pig

Chapter 4 - Sqoop

Internal Assessment

### Paper 9

## Big Data Analysis with SQL

Chapter 1 - Introducing Big Data SQL

Chapter 2 - Storing Oracle Data in Hadoop

Chapter 3 - Storing Oracle Tablespace in HDFS

Internal Assessment



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