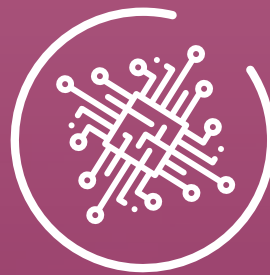


**HACKERU**



# Big Data

DM102

**8**  
Academic Hours

# Big Data

## Outline

The course delivers the key concepts of Big Data. Participants will get familiar with the main technologies involved and with the architectures behind them. Among other, the course will go over the Hadoop Eco-system, Spark and NoSQL databases. The course will also discuss the challenges faced by Big Data developers and what are the recommended tools to use in a given situation.



### Target Audience

- Developers
- Architects
- Analysts
- DBAs



### Objectives

On completing this course delegates will be able to effectively design a process that handles a massive amounts of data using up to data Big Data technologies



### Prerequisites

Basic knowledge of database concepts and development environments





## Content

### Module 01

## Introduction to Big Data

- | Key concepts
- | Use cases
- | Major technologies involved

### Module 02

## Introduction to the Hadoop Ecosystem

- | Problems with Traditional Large-scale Systems
- | The Hadoop Eco-System

### Module 03

## Hadoop Architecture

- | Distributed Processing on a Cluster
- | Storage: HDFS Architecture
- | Storage: Using HDFS
- | Resource Management: YARN Architecture

### Module 04

## Importing Data into Hadoop

- | Sqoop, Flume and Kafka

### Module 05

## Process data over the cluster

- | Introduction to Hive
- | Introduction to Spark
- | Other tools

### Module 06

## NoSQL

- | Basic concepts
- | NoSQL families
- | Major players in the market



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technologies"



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