**Note that the Big Data Analytic covers Hive, NoSQL and MapReduce so here is the Day wise Agenda for the same -**

**Day 1 -**

                o Distributed computing

                o Parallel computing

                o Concurrency

                o Cloud Computing

                o NoSQL

**Understanding HDFS:**

                                o Architecture

                                o File System

                                o Data Replication

                                o Name Node

                                o Data Node

**Day 2 -**

                o CAP Theorem

                o Databases: Key Value, Document, Graph

                o Introduction to Pig, Hive, HBase, Sqoop & Zookeeper

                o Installing Hadoop Single Node cluster

                o Understanding Hadoop configuration files

**Day 3 - MapReduce Introduction**

                o Functional ‐ Concept of Map

                o Functional ‐ Concept of Reduce

                o Functional ‐ Ordering, Concurrency, No Lock, Concurrency

                o Functional – Shuffling

                o Functional ‐ Reducing, Key, Concurrency

                o MapReduce Execution framework

                o MapReduce Partitioners and Combiners

                o MapReduce and role of distributed filesystem

                o Role of Key and Pairs

                o Hadoop Data Types

                o Understanding Sample MapReduce code

                o Executing MapReduce code

**Day 4 - Hive**

                o Installation

                o Setup

                o Architecture

                o Data Model

                o Physical Layout

                o DDL DML SQL Operations

                o Exercises

**Day 5 - Advance Hive**

Partitioning & Bucketing

Implementation of various UDFs in Hive