



**An International Technical Symposium**

**In association with SENSE-VIT**

**22<sup>nd</sup> January 2016 – 24<sup>th</sup> January 2016**

## **BIG DATA & HADOOP WORKSHOP**

### **Description**

Big data is a terminology being given to very large data sets which can be analyzed computationally to show us patterns or trends in the random data. Today whole IT Industry is re-structuring the way they used to maintain their database. This data could be anything right from email IDs, numbers of employees, clients or blood groups of patients, database collection of driving license numbers of whole world.

Big Data in simple words is a technique to manage the important and scattered database and analyze its behavior. This technology is the latest technology on which whole world is moving onto. Enormous Jobs and Opportunities to start own business will be created in the field.

### **Course Structure**

#### **Section 1:** Introduction to Big Data o Data Economy

- Data Analytics
- Data Science
- Traditional Data Processing Technologies

#### **Section 2:** Apache Hadoop Architecture

- Hadoop Architecture
- Hadoop and RDBMS o Hadoop Distributions

#### **Section 3:** HDFS Architecture

- Hadoop 1.0 HDFS Architecture
- Hadoop Basic Concepts
- Hadoop Ecosystem – MapReduce, Hadoop Streaming , Hive, Pig, Hbase
- Where Hadoop fits in the Enterprise

#### **Section 4:** Hadoop Setup and Installation

- Installing Hadoop
- Configuring Hadoop
- Starting Hadoop
- Running Hadoop Clients
- Browsing Hadoop UI Consoles

#### **Section 5:** HDFS Programming Basics

- Architecture
- Examples
- Hadoop Streaming
- Performance Tuning
- Debugging Hadoop Programs

#### **Section 6:** MapReduce Architecture

- Hadoop 1.0 MapReduce Architecture
- Hadoop 1.0 MapReduce Architectural Capabilities

#### **Section 7:** MapReduce Programming Basics

- Introduction to MapReduce
- MapReduce Programming
- MapReduce Programming Using BigInsights

#### **Section 8:** Accessing Hadoop Data Using Hive

- Hive Architecture.
  - Downloading, Installing and Configuring Hive.
  - Understand what Apache Hive is and Hive use cases.
  - Make basic configuration changes in a Hive installation.
  - Use DDL to create new Hive databases and tables
- Course Structure

The Workshop content consists of an approximately equal mixture of lecture and hands-on lab.

**Recommendation:** It is strongly recommended to bring your own LAPTOP during the training on which you can install and run programs if you would like to do the optional, hands-on experiments/exercises after the trainings/ workshops.

**Registration Fee - Rs.1000/participant**

#### **Software & Kits**

IBNC DVD to each participant to help them learn more about BIG Data after the training.

## Certificates

Certificates will be provided by ISO 9001:2008 certified I-Medita Learning Solutions Pvt. Ltd. Company which is registered with Ministry of Corporate Affairs for providing IT Trainings all over India and IBNC India which is a trademark championship that has already been executed in 106 Engineering colleges till March 2015.

- Participation Certificate: Given to each candidate who participate in the workshop
- Excellence Certificate: Given to the winner of the Zonal Center Championship.

IBNC Team gives you freedom to ask your relationship manager at IBNC India for certificate samples in advance so that you could be aware of the certificate you will be receiving beforehand the trainings/workshops.

## About the Company

I-Medita Learning Solutions is an ISO 9001:2008 certified Training and Development company that provides IT Trainings and workshops at technical institutes, universities and companies across India. I-Medita specializes in imparting trainings on all relevant and latest technologies with skilled professional trainers. We also provide customized trainings and make students employable through our Job Guarantee Program and help them get placements in Industry

## About IBNC

IBNC 2016 is India's Biggest Networking Championship is a workshop series being organized for the second time by I-Medita Learning solutions Pvt. Ltd (An ISO 9001-2008 Certified Training Company). IBNC India organizes workshops in college/university followed by a Competition in the college where in winners are selected on the basis of what has been taught practically during the workshop. Competition is done on PC/Laptop of the participants and is 100% in approach similar to the workshop.

At the end of the workshop on third day, competition will be organized and 3 winners will be selected. Winners from each college will get direct entry to IBNC Grand Finale Round during March 2016. Top 3 winners of Grand Finale will get up to **Rs.2 Lac.**



Institution of Electronics  
and Telecommunication Engineers  
Vellore Institute of Technology  
Vellore, 632014, TN, India