

Reg. Fee  
Rs. 250/-

12<sup>th</sup> September, 2018 •

## DEPARTMENT OF INFORMATION TECHNOLOGY

• ORGANIZES •

### ONE DAY WORKSHOP

ON

# BIG DATA ANALYTICS USING HADOOP

B.S. Abdur Rahman



**Crescent**  
Institute of Science & Technology

Deemed to be University vide U.O. of the UGC, Oct. 2016

## ABOUT

Massive amounts of structured and unstructured data are being generated from online user activities on e-commerce, social-media websites, Medical, Pharmaceutical Industry, etc. Big Data, as this massive amount of data is called, leads to many challenges like how do organizations oversee and process this huge measure of information? How do organizations naturally learn shrouded patterns and examples in this information? How do organizations accumulate noteworthy knowledge to enhance their main concern?

This workshop will cover Hadoop tools and techniques that directly address the challenges. Hadoop is an open source distributed processing framework that manages data processing and storage for big data applications running in clustered systems. Formally known as Apache Hadoop, the technology is developed as part of an open source project within the Apache Software Foundation (ASF). The workshop will be focused on more hands-on practice sessions with minimal lectures. This workshop will be more useful to the final year students to develop their final year project and to get placement in leading IT industries.

### COURSE CONTENTS \_

- Understand the Basics of Big Data and Hadoop Ecosystem
- Basic knowledge about Big Data concept
- Map Reduce Paradigm
- Get practical exposure on Hadoop software
- Future of Big data

### HANDS ON TRAINING IN HADOOP SOFTWARE \_

- Software Installation
- Data Ingestion using Sqoop & Flume
- Data Analysis using Hive & Pig
- Hands on Hadoop Project

### WHO CAN ATTEND? \_

- Students
- Research Scholars
- Academicians

### PRE-REQUISITE \_

- Basic knowledge in programming
- Anyone with Laptop

### BENEFITS \_

- Take up Final Year Student Project
- Opportunity for Placement
- Gateway for learning new technologies

### CONVENER

Dr. M. RAJESH  
HOI/IT

### COORDINATORS

Dr. N. PRAKASH - Assoc.Prof./IT  
Ms. L. SHAKMEERA - AP(Sr.Grade)/IT  
Ms. S. PRIYADARSHINI - AP(Sr.Grade)/IT

B34, Crescent Institute of Science & Technology,  
B34, 12th Sep 2018, 12:00 PM  
+91-944 170 1111  
+91-944 170 1111

ishaknare@crescent.education  
rpnayak@chil@crescent.education

www.crescent.education



B.S. Abdur Rahman  
**Crescent**  
Institute of Science & Technology  
Deemed to be University u/s 3 of the UGC Act, 1956  
GST Road, Vandalur, Chennai 600 048

## DEPARTMENT OF INFORMATION TECHNOLOGY

### Workshop Report on “Big Data Analytics Using Hadoop”

**Date of Workshop-** 12<sup>th</sup> September, 2018

**Participants** – Students, Research Scholars, Academicians

**Venue** – Common Computing Lab, BSACIS&T, Chennai

Quantifying the amount of digital information that exists in the world is hard. What is clear is that there is an awful lot of it, and it is growing at a terrific rate. Modern day businesses are not an exception; it accumulates an astonishing amount of digital data, which may be leveraged to unlock new sources of economic value or to provide fresh insights into business trends. The real challenge in this process is the design of computing, storage infrastructures and algorithms needed to handle this “big data” problem. Web being the largest collection of digital data, Internet companies have contributed several exceptional technologies to efficiently handle this issue. A workshop on “Big Data Analytics using Hadoop” was arranged on 12<sup>th</sup> of September, 2018 and handled by the resource person Mr.Sukumar, Project Lead, SANDS (India) Pvt Ltd, Chennai.

The workshop was organized by the Department of Information Technology for the benefit Students, Research Scholars, and Academicians. During the session, he briefed about the basics concepts of analytics and big data technologies with its strategic importance to any organization. Participants were also introduced to the concept of analytics with big data technologies: Hadoop, Hive, Sqoop, Pig and Hive. The entire session dealt with the basic principles, concepts, and techniques used for big data and analytics, which includes Hadoop, Sqoop, Pig and Apache Hive. Also a hands on training in the Hadoop software such as installation, data ingestion using Sqoop and Flume and data analysis using Hive and pig was trained well. Participants got clear picture of all these concepts and how they all are interconnected to each other in organizational context.

After attended this workshop students, research scholars and faculty members will able to manage, analyze and learn from Big Data using Hadoop. This workshop was very useful to the final year students to develop their final year project and to get placement in leading IT industries

**Submitted by**  
AMIT S  
(Final Year – M.Tech (IT) – III  
Semester)



