CONVENER

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CO-ORDINATORS

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Advisory Committee

Dr. G.T.Thampi (Principal)
Dr. A.S Kunte (Vice Principal)
Prof. Arun Kulkarni (HOD, IT)
Prof. C.S. Kulkarni (Dean, Acad)
Prof. Archana Kale
Prof. Anjalii Malviya
Dr. Madhuri Rao

Organizing Committee

Prof. Sampada Pinge
Prof. Kumkum Saxena
Prof. Gopal Pardesi
Prof. Geeta Karande
Prof. Mukesh Israni
Prof. Nikilesh Joshi
Prof. Nagaveni Hebber
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Prof. Chetan Agarwal
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Prof. Sanjaykumar Pandey
Prof. Sanober Shaikh
Prof. Shachi Natu
Prof. Bhushan Jadhav
Prof. Rahul Talreja
Prof. Bhanu Tekwani

ISTE APPROVED- TWO WEEK STTP
On

BIG DATA ANALYTICS

(December 1\textsuperscript{st} – 12\textsuperscript{th}, 2014)

Organized by

Department of Information Technology

Convener

Dr. G.T. Thampi

Co-ordinators

Prof. R. Thirumahal
Prof. S. Shanthi Therese

PROGRAM SCHEDULE:

- Duration: December 1\textsuperscript{st} to 12\textsuperscript{th} 2014
- Timing: 10:00 am to 4:00 pm
- Venue: Seminar Hall New Bldg

Certification from Training Partner

M/S. ATS | LEARNING SOLUTIONS

ThadomalShahani Engineering College,
P.G.Kher Marg TPS III, Linking road,
Bandra (W) Mumbai-400050.
ABOUT TSEC:
Thadomal Shahani Engineering College (TSEC) is an ‘A’ Grade Institute managed by Hyderabad (Sind) National Collegiate Board and approved by the All India Council for Technical Education (AICTE), Affiliated to the University of Mumbai.

ABOUT DEPARTMENT:
The Department of Information Technology came up in the year 1998. Since then the Department has grown in strength, in terms of Infrastructure and Faculty qualification. The Department has organized Seminars, Workshops, Project Competitions and International/National conferences. The Department has started Ph.D. program from 2012.

COURSE OBJECTIVES:
- The objective of the course is to provide an overview of an exciting growing field of big data analytics.
- To give hands on experience for the tools required to manage and analyze big data like Hadoop and Map-Reduce.
- To make the participants learn the fundamental techniques and principles in achieving big data analytics with scalability and streaming capability.
- To enable the participants to acquire skills that will help them to solve complex real-world problems in decision support.

COURSE OUTCOME:
- “Breaking the ice” in start teaching Big data analytics in the forthcoming semester(2015-2016) in the university Information Technology program.
- Understanding the drivers of market driven business critical essentials of data analytics in general.
- The participants will able to understand the key issues in big data management and its intelligent applications in the realm of business and scientific computing.
- Understanding fundamental and enabling technologies and scalable algorithms like Hadoop, Map Reduce in big data analytics.
- Initiation to business models, scientific computing paradigms, and application of software tools for big data analytics.

COURSE CONTENTS:
- Core java
- Overview of Hadoop
- Components of Hadoop
- Hadoop Common Utilities
- Hadoop Architecture
- Building blocks of Hadoop
- Hadoop cluster setup
- Hadoop Distributed File System(HDFS)
- Map reduces program
- Designing applications involving large data using Hadoop eco system
- Refer Annexure - I for detailed course contents

RESOURCE PERSONS:
The sessions will be conducted by professionals of ATS learning solutions, reputed institutions and IT software industry.

REGISTRATION FEES:
- Rs. 10000/- (Industry / Business)
- Rs. 5000/- (Inclusive of course material, Refreshment & Lunch)
- Rs.3000/- (TSEC Faculty)
- Payment can be made by DD/ Cheque in favor of “Thadomal Shahani Engineering College”

Last Date of Registration: 30/11/2014

Confirmation by E-mail or Phone.

REGISTRATION FORM

Name: ___________________________
Designation: _____________________
Institution: ______________________
Address: __________________________
__________________________________
Phone: ___________________________
Email: ___________________________
Member of ISTE: Yes / No
Membership No.: ___________________
Details of payments:
Cash / DD /Cheque No.________________
Bank: ____________________________
Date: ________________

Signature of participant:

Signature with seal of the sponsoring authority

Confirmation by E-mail or Phone.
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<thead>
<tr>
<th>DATE</th>
<th>TOPICS</th>
<th>SPEAKER</th>
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<tr>
<td>01/12/2014</td>
<td>• Class, objects and methods, control structures</td>
<td>Dr. G.T. Thampi, TSEC</td>
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<td>02/12/2014</td>
<td>• Datastructures in Java, exercise programs.</td>
<td>Dr. G.T. Thampi, TSEC</td>
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<td>• Introducing the concepts of interfaces, abstract classes, inheritance</td>
<td>Dr. G.T. Thampi, TSEC</td>
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<td>03/12/2014</td>
<td>• Exception Handling.</td>
<td>Dr. G.T. Thampi, TSEC</td>
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<td>• Multithreading String Handlings &amp; Vectors</td>
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<td>04/12/2014</td>
<td>• The Motivation for HADOOP Big Data</td>
<td>M/S. ATS</td>
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<td>• Problems with traditional large-scale systems</td>
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<td>• An Overview of HADOOP, Comparing with SQL Databases</td>
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<td>• The HADOOP Distributed File System</td>
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<td>05/12/2014</td>
<td>• HDFS Design &amp; Concepts, Blocks, Replication</td>
<td>M/S. ATS</td>
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<td>• HADOOP DFS and DFS admin Command-Line Interfaces</td>
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<td>• Basic File System Operations, Reading Data by HDFS Java Client API</td>
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<td>06/12/2014</td>
<td>• Building blocks of Map Reduce and Map Reduce program flow (MR Skeleton)</td>
<td>M/S. ATS</td>
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<td>• Sample Map Reduce Program, Map Reduce API Concepts</td>
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<td>• The Mapper, Reducer, Combiner, Practitioner and Shuffle</td>
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<td>• HADOOP Data Types, Serialization and Streaming API</td>
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<td>• Some Map Reduce Program Examples</td>
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<td>07/12/2014</td>
<td>• Implement Multi node cluster.</td>
<td>M/S. ATS</td>
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<td>• Learn how Map Reduce interacts with data and processes them</td>
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<td>• Ability to design and develop applications involving large data using Hadoop eco system. Differentiate between new as well as old APIs for Hadoop.</td>
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<td>• Sample project discussion</td>
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<td>08/12/2014</td>
<td>• HOLIDAY</td>
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<td>09/12/2014</td>
<td>• HOLIDAY</td>
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<td>10/12/2014</td>
<td>• Remote method invocation, Enterprise Java Bean and CORBA</td>
<td>Mr. Bhushan Jadav, TSEC</td>
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<td>11/12/2014</td>
<td>• Overview of NoSQL</td>
<td>Dr. M. Vijayalakshmi, VESIT</td>
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<td>12/12/2014</td>
<td>• Glimpse of analytics.</td>
<td>Dr. G.T. Thampi, TSEC</td>
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