

FACULTY DEVELOPMENT PROGRAM

On

Big Data with Hadoop

Organised by

Electronics & ICT Academy

IIT Roorkee



In Association with

**Tula's Institute, The Engineering &
Management College Dhoolkot,
Dehradun (Uttarakhand)**



Jan 02, 2018 - Jan 07, 2018

Experts from Academia/Industry

Guest lecture
IIT Roorkee

(Kovid Academy)
Industry Expert



Supported by

Ministry of Electronics & Information Technology
Government of India



Venue

**Tula's Institute, The Engineering &
Management College Dhoolkot,
Dehradun (Uttarakhand)**

Objective of the Course

- To apply traditional data analytics and business intelligence skills to big data tools like Apache Impala (incubating), Apache Hive, and Apache Pig.
- Cloudera present the tools data, professionals need to access, manipulate, transform, and analyze complex data sets using SQL and familiar scripting languages.

Benefits and Outcomes of the Course

- Course provides participants with a comprehensive understanding of all the steps necessary to operate and maintain a Hadoop cluster using Cloudera Manager.
- With Spark, developers can write sophisticated parallel applications to execute faster decisions, better decisions, and interactive actions, applied to a wide variety of use cases, architectures, and industries. Apache Spark examples and hands-on exercises are presented in Scala and Python.

Program Features

- The program is split into lectures and lab sessions.
- Quizzes and project work for enhanced learning.
- Hands-on experience on basic & advanced-level topics.
- Interaction & learning with experts from academia & industry.
- Certificates to the participants by E&ICT Academy IITR.

Focus Area

- Introduction to Hadoop.
- Hadoop Distributed File System (HDFS).
- MapReduce and Spark on YARN.
- Hadoop Cluster Installation.
- Getting data into HDFS.
- Installing and configuring Hive & Impala.
- Hadoop clients including Hue.
- Interacting with Pig.
- Processing complex data with Pig.
- Multi-Dataset operations with Pig.
- Introduction to Hive and Impala.
- Querying with Hive and Impala.
- Getting data into HDFS.
- Complex data with Hive and Impala.
- Apache Spark Basics.
- Aggregating data with pair RDDs.
- Writing, Running, & Configuring Apache Spark Apps.
- Parallel Processing in Apache Spark.
- RDD Persistence.
- Data-Frames and Spark SQL.
- Message processing with Apache Kafka.
- Capturing data with Apache Flume.

Coordinators

Dr. Sanjeev Manhas, P.I. Dr. Pramod Kumar
E&ICT Academy, ECE Dept, Director,
IIT Roorkee Tula's Institute



Who Can Attend ?

Program is open to faculty members/research scholars/PG students from colleges/universities, and industry personnel working in the concerned/allied discipline.

Registration Fee

Faculty members/Research scholars: ₹ 2,500/-
Industry person: ₹ 3,000/-

Payment Details

DD in favor of "Dean SRIC IIT Roorkee" payable at Roorkee
"OR"

Make Online Payment by NEFT/RTGS on given detail

Account Name: Research Project, IIT Roorkee
Account Number: 33012172097
IFSC code: SBIN0001069

How to Apply

Step 1: Make Payment

Step 2: Participants may fill registration form through Academy website (<http://eict.iitr.ac.in>).
OR

Step 2: Send a duly filled-in registration form along with Demand Draft to Academy address.

Mr. Prateek Sharma, EICT Academy, ECE Department, IIT Roorkee-247667

Important Dates



**Last Date For Online
Registration :
28th Dec 2017**

**Last Date For Receiving
Application : 29th Dec 2017**



EICT Academy IITR

Electronics and ICT Academy (E&ICT) at IIT Roorkee (funded by Ministry of Electronics and Information Technology) aims to enrich and upgrade teaching and research competences of engineering faculties of institutes/colleges by conducting courses and workshops in fundamentals as well as emerging areas of E&ICT and enabled areas. The programs are conducted by well-known industry partners, resource persons from leading academia and experts from renowned R&D organizations.



Activities of the Academy

- Specialized training on basic and advanced level topics with hands-on experience in the emerging areas of Electronics & ICT.
- Setup the activity centers to conduct FDPs locally at institutes/colleges.
- Curriculum development for the industry.
- Continuing Education Programme for students/working professionals.
- Design, develop and delivery of specialized modules for specific research areas in industry.

Faculty Development Program
on

"Big Data with Hadoop"

Jan 02, 2018 - Jan 07, 2018



REGISTRATION FORM

Applicant Name _____

Gender: _____

Category (GEN/OBC/SC/ST): _____

Designation: _____

Name and Address of the
Organizatio/Institute: _____

City/Town: _____

Email: _____

Phone Number: _____

Do you need Accommodation?
(Yes/No): _____

DD Number: _____

Date: _____

Issuing Bank: _____

Payable at: _____

Signature of the Applicant

Contact Us

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