

FACULTY DEVELOPMENT PROGRAM

On

Big Data with Hadoop

Under the aegis of

Electronics & ICT Academy

IIT Roorkee



In Association with

Graphic Era Hill University, Dehradun
(Uttarakhand)



Graphic Era
HILL UNIVERSITY
Established under section 2(f) of UGC Act, 1956

Sep 23, 2017 - Sep 29, 2017

Experts from Academia/Industry

Dr. Sudip Roy,
CSE Dept
IIT Roorkee

Sai Kumar. P.
(Kovid Academy)
Industry Expert



Supported by

Ministry of Electronics & Information Technology
Government of India



Venue

Graphic Era Hill University, 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 presents 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
- The 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
- DataFrames and Spark SQL
- Message Processing with Apache Kafka
- Capturing Data with Apache Flume

Coordinators

Dr. Sudip Roy,
CSE Dept
IIT Roorkee

Dr. Sanjeev Manhas, P.I.
E&ICT Academy, ECE Dept,
IIT Roorkee

Amit Gupta
CSE Dept

Graphic Era Hill University



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: ₹ 2,000/-
Industry person: ₹ 5,000/-
(without accommodation)

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:
21st Sep 2017**

**Last Date For Receiving
Application: 22nd Sep 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"

Sep 23, 2017 - Sep 29, 2017



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

Electronics and ICT Academy, IIT Roorkee

Roorkee - 247667, (Uttarakhand) INDIA



Ph. +91-1332-28 6457, +91-7078627392



Email: eict@iitr.ac.in, eictiitr@gmail.com



Website: <http://eict.iitr.ac.in>



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