

Big Data

Department of Computer Science and Engineering, IIT Roorkee

April, 01-10, 2016

(You may get this form photocopied or may download from www.iitr.ac.in)

After Completion, please mail to: Dr. Dhaval Patel Coordinator, S209, CSE Dept, IIT Roorkee Roorkee – 247 667 (Uttarakhand) Phone: (01332) 285700 Email: dhaval.iitr@gmail.com	Affix passport size photograph
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1. Name of applicant (in block letters): Ms./Mr.
2. Designation
3. Age (Years)
- 4a. Residential address with pin code

Tel:

Mobile:

- 4b. Official address with pin code

Phone (Off.)

Fax:

Email:

Fax:

Email:

- 4c. Name of the Institute where employed/enrolled
- 4d. Name of the Department
5. Highest Academic Qualification
6. Branch of Specialization
7. Teaching Experience in Years

Date:

Signature of applicant

Note:

- (i) Application should reach CSE Office at the above address latest by **20 March, 2016**. Scanned copy may be sent by e-mail.
- (ii) Please come to Roorkee to attend the program, only if you have received intimation.
- (iii) Registration is Free and the number of participant is limited to 30. Working lunch, hostel accommodation and partial Travel Allowance will be provided for out-station candidates.

SPONSORSHIP CERTIFICATE

- (a) The applicant will be permitted to participate in the above Program, if selected. Further, I have personally talked to the applicant and he/she seemed to be sure to attend it, in case the admission is offered to him/her.
- (b) Certified that this institute is recognized by AICTE/UGC.

Date:

Signature of Sponsoring Authority
(Principal/Director)

Seal of the Institution

16.Bit

10 Day Training Program on Big Data

April 01-10, 2016

Being organized by
Department of Computer Science & Engineering

With Complete Financial Assistance from
Big Data Division (BDI) – DST India



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OBJECTIVE & SCOPE OF THE Program

Big Data is everywhere. Several industries ranging from technology to finance to governments want to use Big Data Analysis techniques for knowledge discovery. Tools and techniques have been developed recently to handle various aspects of Big Data Analysis such as data aggregate tools, scalable storage, efficient retrieval, and faster analysis. It is important to get the awareness of this recent development in the area of Big Data Analytic tools and techniques. This course will look at the software and algorithms designed for coping with Big Data. We will train participant to get practical knowledge for Big Data Analysis. The course focuses on 5 aspect of Big Data Analysis

- (1) Data Collections,
- (2) Scalable Storage,
- (3) Faster Retrieval Techniques,
- (4) Efficient Data Analysis, and
- (5) Security Concern in Big Data Applications.

Objectives of the course:

1. Explain 5'V of Big Data using real world examples obtained from Social Network, News Media Monitoring and Analytics Projects
2. To explain distributed data storage techniques such as Google File System and Hadoop Distributed File System
3. To explain various data storage models for Big Data such NoSQL, Key-Value Storage, Column-Family Storage, Document Storage Model, Graph Database
4. To learn GPU computing based parallel processing techniques for big data analysis
5. Introduction to MapReduce framework based Distributed computing for Data Intensive Computing

ABOUT IIT ROORKEE

IIT Roorkee became the seventh IIT of the country when 21st September 2001 the prestigious University of Roorkee was converted into an IIT. Founded as Thomason College of Civil Engineering in 1847, this temple of learning, the oldest engineering institution in Asia and the first one in the then British Empire, is now 160 years old. The Institute offers 11 undergraduate courses in Engineering and Architecture and 51 postgraduate courses in different disciplines of Engineering, Architecture, Management and Sciences alongwith 5 Integrated Dual Degree, 3 Integrated M.Tech. and 3 Integrated M.Sc. programs. Ph.D. programs are conducted in all disciplines.

IIT Roorkee possesses a unique environment congenial for research and development activities and the faculty has expertise in almost all the major fields of engineering and sciences. The Institute has 18 academic departments, one academic center and 3 centers of excellence. Modern centralized facilities exist at the Institute, including a Computer Center, Information Super-Highway Center and Instrumentation Center. The Institute's Central Library and the libraries of several national institutes located at Roorkee provide priceless technical literature, seldom available at any other engineering center in the country.

ABOUT ROORKEE

Roorkee is a part of the State of Uttarakhand and is located at the foothills of Himalayas. Roorkee Railway Station is on the main line of Northern Railways having direct links to Delhi, Mumbai, Calcutta, Amritsar, Jodhpur and Shri Ganganagar. The place is also within easy reach by road from Delhi (200 km) and Chandigarh (180 km). It is located on Delhi – Haridwar and Delhi – Dehradun bus routes. Roorkee is ideally located near several tourist places, like Dehradun (70 km), Mussorie (100 km), Haridwar (32 km) and Rishikesh (50 km).