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“A Case-Based Short Term Course on

Advanced Data Analytics with Python Programming

TEQIP III FDP SHORT TERM COURSE

20 May (Monday) - 24 May (Friday), 2019



Department of Management Studies
Indian Institute of Technology Roorkee
Roorkee - 247667

Course Coordinator

Prof. Anbanandam Ramesh
Associate Professor

“A case-based short term course on Advanced Data Analytics with Python Programming”

1. Importance of the course under present Science & technology developments

With today’s technology, companies can collect tremendous amounts of data with relative ease. Indeed, many companies now have more data than they can handle. However, the data are usually meaningless until they are analyzed for trends, patterns, relationships, and other useful information. This one-week short term course will help the participants to learn and practice a variety of methods, from simple to complex to analyse data sets and uncover important information.

This Five-Days-Short-term course is an entirely hands-on approach to data analytics using ‘Python’ programming. The short term course will begin by discussing elementary concepts of data analytics and then moving towards more advanced concepts. Elementary concepts will be taught in extreme detail. This course will cover the following topics: Business Statistics, Predictive Analytics, Optimization Analytics, Marketing analytics, Supply chain analytics, Simulation, and Advanced forecasting analytics.

2. Brief objective of the course

At the end of the course, the participants will be able to:

- Understand the role and applicability of various data analytics tools in the management domain such as Marketing, Operations, Finance, Economics and Human Resource Management.

3. Course Contents in brief

- Regression Analysis – Simple and Multiple
- Logistics Regression
- Classification and Regression Trees (CART)
- Text analytics
- Clustering Analysis
- Data Visualization
- Linear Optimization
- Non-Linear Optimization

4. Faculty

Experienced faculty members from various departments/centres of IIT Roorkee and other reputed institutions/agencies/industries will deliver lectures.

5. Who can participate?

TEQIP III approved university/institution/college teachers.

6. Course Fee

No course fee shall be charged from the faculty of TEQIP III approved Universities/Institutions/Colleges. TA and DA of the participants will be borne by their parent institute.

7. Accommodation

Lodging and boarding will be provided to the participants on a twin-sharing basis. **Lodging and Boarding are free for faculty of TEQIP III approved colleges.**

8. How to apply

Please fill this google form and upload your nomination proforma (Annexure-1).

https://docs.google.com/forms/d/e/1FAIpQLSesz8JGwdfFQE_2szMwxXDhibteZCiRGJ-NMagiaXT-PvgUrw/viewform?vc=0&c=0&w=1&usp=mail_form_link

Only **thirty participants** will be selected for the course on the basis of First Come First Served.

9. Important dates

Last date for receiving application: 03 May 2019 (Friday)

Intimation to Participants (by email):05 May 2019 (Sunday)

Course Dates: 20-24 May 2019

10. Contact Information

Dr Anbanandam Ramesh

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Department of Management Studies

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Note: please upload signed copy of it at
https://docs.google.com/forms/d/e/1FAIpQLSesz8JGwdfFQE_2szMwxXDhibteZCiRGJ-NMagiaXT-PvgUrw/viewform?vc=0&c=0&w=1&usp=mail_form_link

**Nomination Proforma
For
TEQIP III FDP SHORT TERM COURSE
ON**

**“A case-based Short Term Course on Advanced Data
Analytics with Python Programming”**

Department of Management Studies
Indian Institute of Technology Roorkee

20 May (Monday) - 24 May (Friday), 2019
(Five Days)

Name of Applicant:..... Designation:.....
Educational Qualification Specialization
Affiliating Institution:
Address.....
.....
State :..... Pin:.....
Phone..... Email:.....
Mobile number:

Signature of Applicant with date

Forwarded:

The applicant will be permitted to participate in the above program if selected.

Date: Signature (Director/Principal/Head/TEQIP Coordinator)
Seal of the Univ./Institute/Dept. / Organization