

Exclusively for Faculty Members

Orientation Program on

Data Mining and Business Analytics

30th to 31st March 2017 (2 days)



Conducted by
Indian Statistical Institute, Hyderabad

Venue and Timing

Lecture Hall
Indian Statistical Institute
Hyderabad
(0930 to 1730)

Registration

Send your filled registration forms to

Prof G Murali Rao, Program Director
gmuralirao@gmail.com

(Registration will be on the basis of first come first served basis
and suitability/eligibility)

Last Date : 28th March 2017

Registration ONLY after confirmation

There will NOT be any Spot Registration on 30th March 2017

About the Program

This appreciation program is designed **exclusively** for the Faculty Members from **Engineering and Science Colleges** by Indian Statistical Institute, Hyderabad with an objective to help the Faculty Members understand the need for application of Data Mining and Business Analytics in the present day context and motivate them to acquire further knowledge as well as transfer the knowledge to their students in an effective manner so as to help them work in the area of data sciences. In this age of advancing technology, internet, e-commerce, e-governance, digitation etc., large volumes (petabytes) of data are being generated. These large and complex data (BIG DATA) cannot be processed efficiently using traditional methods & tools. Challenges in analysis include understanding, cleaning, searching, visualization, mining, modelling, prediction etc. Statistical Methods, both advanced as well as simple provide excellent techniques to analyze big data efficiently.

Program Coverage

An overview of the following topics from an applied prospective will be covered in the orientation program

Introduction to Big Data, Different approaches of Data Mining and Analytics, Basics of Data Mining and Business Analytics, Exploratory Data Analysis (visualization/Graphical Methods), Descriptive Analytics, Basic & Advanced Statistical Methods, Regression Modelling, Predictive Analytics, Resampling Methods, Supervised and Unsupervised Learning, Multivariate Analysis CAR&T, Market Basket Analysis (Association Rules), Time Series Models, Machine Learning Techniques, Prescriptive Analytics etc.

Exposure to Statistical Software such as R Programming, Minitab, Statistica, etc.

Venue : Indian Statistical Institute, Hyderabad

Eligibility : Faculty Members from local Engineering and Science Colleges.

Faculty : The workshop will be conducted by Senior Faculty members of Indian Statistical Institute with over 30 years of experience in teaching, research and providing advisory service to Government, Scientific and Research Establishments, Industry etc.

Registration :

Registration ONLY after confirmation. Spot Registration on 30th March are not allowed

Mail the completed registration form (with attachments) as early as possible to

Prof. G Murali Rao
gmuralirao@gmail.com

Last date for sending registration form : 28th March 2017

Registration Fee : Rs 1000/- (Rupees One thousand only) Selected/eligible candidates need to pay the fee along with the applicable taxes in full at the beginning of the program in the form of Demand Draft drawn in the favour of Indian Statistical Institute, Payable at Hyderabad or Online Bank Transfer.

Online Transfer Details (ONLY NEFT) :

Bank Address - Syndicate Bank, J S N Colony, Habsiguda, Hyderabad.
Account No : 30451010000079 / IFSC Code : SYNB0003045

Selection will be based on suitability/eligibility and first come first served basis. Selected candidates will be intimated by mail on or before **29th March 2017**

(selected candidates need to attend the program with their personal laptops)

Indian Statistical Institute

The Indian Statistical Institute (I.S.I.), founded by Professor Prasanta Chandra Mahalanobis, grew out of the Statistical Laboratory set up by him in the Presidency College in Kolkata in the year 1931. In 1959, in recognition of the role of statistics as a key technology of the modern times and the importance of the Institute in the development and application of statistics, the Parliament of India enacted the Indian Statistical Institute Act, declaring it an Institution of National Importance. The Institute is now considered as one of the foremost centers in the world for training and research in statistics and related sciences. In keeping with this long tradition, the Institute has been engaged in developing statistical theory and methods and their practical applications in various branches of science and technology. The major objectives of the Institute, as given in its Memorandum, are

- To promote the study and dissemination of knowledge of statistics, to develop statistical theory and methods, and their use in research and practical applications generally, with special reference to problems of planning of national development and social welfare;
- To undertake research in various fields of natural and social sciences with a view to the mutual development of statistics and these sciences;
- To provide for, and undertake, the collection of information, investigation, projects and operational research for purposes of planning and the improvement of efficiency of management and production.

The Institute initiated the Quality Movement in India as early as 1947. Through its SQC & OR Division the Institute is providing assistance to Indian industry relentlessly since then to achieve high quality and productivity at an affordable cost.

SQC & OR Unit, Indian Statistical Institute, Hyderabad

The Statistical Quality Control and Operations Research (SQC & OR) Unit at Hyderabad of the Indian Statistical Institute was established in the year 1974 with the objective of helping industries in Andhra Pradesh and also industries of other states close to Hyderabad for promoting and propagating statistical and quality management methodologies. The SQC & OR Unit, Hyderabad is one of the major Units of the SQC & OR Division of the Indian Statistical Institute. SQC & OR Division was created by Professor Mahalanobis exclusively for helping the Indian industries in managing quality and productivity problems with the application of Statistical as well as Quality Management methodologies. Manufacturing, Automobile, Process, Service, Banking, IT, BPO & KPO industries, Research Institutions and Central & State Govt. Depts. have availed/availing the services of SQC & OR Unit Hyderabad. SQC & OR Unit, Hyderabad has immensely contributed to the SQC & OR Division's activities such as

- Playing a pioneering role in the Quality Movement in India and setting path for quality control and improvement activities for the Indian industries through promotion and applications of statistical and operations research methodologies.
- Serving the industries in India and abroad over the last five decades by providing training and consultancy on quality concepts and methodologies such as TQM, Taguchi Methods, Quality Function Deployment, Six Sigma, and Quality Systems.
- Collaborating and exchanging ideas with quality gurus. Some experts like Shewhart, Deming, Juran, Taguchi, Ishikawa, Ott, Tippet and Suda visited ISI at various points of time and interacted with ISI faculty.

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Registration Form

(To be submitted through Email to gmuralirao@gmail.com)

1. Name :

Age :

Sex : M/F

2. Organisation/Institution :

(Attach scanned copy of ID with Photo)

3. Designation/Status :

4. Department/Function :

5. Highest Qualification :

6. Years of Experience :

8. Address :

Email ID :

Mobile :

Briefly describe your research/publications and purpose of attending the workshop

Signature with Date

Certified that the applicant Dr/Mr/Mrs/Ms is
a faculty member of our Institution/Organization. His/her application is hereby
forwarded for participation in the above workshop.

Date:

Name, signature
and seal of other competent authority
(VC/Principal/Director/Dean/Registrar/HOD)
