

Certification Program
on
***Statistical Techniques for Data Mining &
Business Analytics (DMBA)***

During September 8-10 and 22-24, 2017



Conducted by:
SQC & OR Unit, Mumbai
Indian Statistical Institute,
Room No 320, 3rd Floor Old C G O Building
101 Maharshi Karve Road, Mumbai 400 020:
Tel 22014588 / 22004574
email: sqcbombay@gmail.com
www.isimumbai.co.in

Introduction:

Business analytics refers to the skills, technologies, practices for continuous iterative exploration and investigation of past business performance to gain insight and drive business planning. It requires analysis of data using statistical and quantitative techniques. The programme is planned to impart basic skill of data analysis using appropriate statistical techniques.

About the Institute:

The Indian Statistical Institute is a quasi central organization under the Ministry of Statistics & Programme Implementation. It is declared by an Act of Parliament as an Institute of National Importance. Over the years the Institute has grown as a multi-disciplinary organization. It functions as a University empowered to award degrees upto Ph.D.; as a Corporation in undertaking large scale projects; as a Firm of Consultants to industries to improve Quality, Reliability and Efficiency and as a Meeting place

Programme Objectives:

This program is designed to guide business analytics professionals in extracting implicit, previously unknown and potentially useful knowledge from large data sets, developing performance models & usage of optimization techniques.

Program Benefits:

The participants will acquire the knowledge on, various statistical and analytical techniques requires for data mining. All the topics will be covered using R-studio and MS-Excel.

Course Contents:

- Introduction
- Problem formulation strategies
- Fundamentals of statistics
- Identification of outliers in univariate & multivariate data sets
- Test of Hypothesis
- Analysis of Variance (One way and two way)
- Missing value analysis
- Categorical data analysis - Cross tabulation, Odds, Odds ratio and Chi-square test
- Market basket analysis: Frequent item set generation & association rule mining
- Decision tree like Classification and Regression Tree, Random forest
- Predictive Modeling using Linear, Non linear and logistic regression techniques.
- Multivariate Analysis like Cluster (using K-Mean clustering & Hierarchical clustering Algorithms) and factor analysis.
- Advance regression topics like splines, time series etc.
- Case Studies

Target Participants:

Managers / Executives/ Professionals/ Students associated with data analysis.

Session Plan:

September 8-10:	Classes along with exercises.
September 22:	Exercises and presentation by participants
September 23-24:	Classes along with exercises.

Faculty:

Experienced faculties of SQC & OR Division having in-depth experience in data analysis and its application in various industries.

Certificate:

Certificate will be awarded on successful completion of training, assignment and passing the Qualifying examination on last day of the program.

Course Fee:

- INR 30,000 per participant + 18% GST (INR 35,400/-) **for corporate/sponsored persons**
- INR 25,000 per participant + 18% GST (INR 29,500/-) **for students and individual participants**
- US\$ 600 for overseas participants (inclusive of course material, kit, lunch & snacks).

Registration:

- Please send your nomination along with appropriate course fee in the attached registration format. Before making online payment, please check availability of seats. Fees once paid will not be refunded under any circumstances
- All participants are required to bring laptop, for carrying out analysis using R-studio.
- Registrations are done on 'first come first served' basis.

Important Dates:

Last date of submission of nominations: September 1, 2017

Program dates: September 8-10 and September 22-24, 2017

Timing: 9:30 hrs - 17:30 hrs

Venue: TO BE ANNOUNCED LATER

**Training Programme on
Statistical Techniques for Data Mining and Business Analytics
September 8-10 and 22-24, 2017**

Organization:

Mailing Address:

Contact Person:

E-mail:

Phone: Fax :

Details of the participants attending the program:

1. Name :

Position :

2. Name :

Position :

Details of DD/Cheque attached (Rs 35400/- or Rs. 29500/-) per participant inclusive of GST @18% in favour of "Indian Statistical Institute" payable at Mumbai

Amount : _____

DD/Cheque No. : _____ Date : _____

Bank : _____ Branch : _____

Signature : _____ Name : _____ Date : _____

Bank Details for online payments [please inform details of online payment to office]

Bank Name: STATE BANK OF INDIA

Bank Account No: 10996682279

Account Name: INDIAN STATISTICAL INSTITUTE, Type: Current

Branch: MUMBAI MAIN BRANCH

Bank Address: MUMBAI SAMACHAR MARG, HORNIMAN CIRCLE, FORT
MUMBAI 400023

IFSC code: SBIN0000300

Signature :

Name : _____ Date _____

Xerox copy of this form may be used in case of more participants. Please e-mail the form to: sqcbombay@gmail.com or send to :

Program Director, SQC & OR Unit, Indian Statistical Institute, Room No,320, 3rd Floor, Old CGO Bldg,101, Maharshi Karve Road, Mumbai 400 020

Tel. 022 - 22014588 / 22004574 www.isimumbai.co.in