

INDIAN STATISTICAL INSTITUTE

SQC & OR Unit, Road # 8, Habsiguda, Hyderabad - 500 007

Ph. No. 040 - 2715 3984, 2717 1906, 2717 9402 FAX: 2717 3602

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Training Program on Optimization Tools for Business Analytics Optimal Decision Making Through Intelligent Modelling [February – April 2019]

Scope and Intent: Business runs on decision making and business excellence is only possible when the decisions are made optimally. Mathematical models and algorithms are indispensable to arrive at optimal decisions. Many typical industrial and business problems are intelligently modelled as mathematical problems and can be effortlessly solved with the computing power available today. Unaware of this, managers and executives continue to make decisions based on experience and subjective evaluations which often turn out to be deficient or suboptimal. Most of the training programmes/courses, including the ones at undergraduate and post graduate level, available today focus on theoretical background. This program is exclusively designed to aggressively promote the OR applications in industry through training managers and executives on modelling a variety of decision making problems encountered most frequently in the routine business analytics.

Course Structure & Contents: Starting with basic introduction to optimization models, the course will focus on modelling various standard problems such as assignment, transportation and network, material and production planning, project management, staff management, call centre management, product mix, vehicle routing and so on. A number of live case studies will be presented at length. The participants will be introduced to professional OR software as well as excel based solver, and will be provided hands on experience in using these software for solving the models.

Who Can Attend the Course: The course is primarily meant for managers and executives working in industry, both service and manufacturing. The course will also be extremely useful for faculty members teaching OR at undergraduate and post graduate level because the live examples and case studies covered in the course can be used for motivating the students. Mathematics in the course will be kept at a very minimal level and the participants are expected to have acquaintance with mathematics at the intermediate level.

Programme Schedule: The programme schedule and the topics are shown in the annexure. Sessions will be conducted through *classroom sessions* as well as *online training*.

Optimization Tools for Business Analytics - Optimal Decision Making Through Intelligent Modelling Schedule					
Date	Day	Session I	Topic	Session II	Topic
24-Feb-19	Sunday	10am - 1pm	Industrial Problems and Optimal Decision Making	2pm - 5pm	Modelling Decision Making Problems
3-Mar-19	Sunday	10am - 1pm	Linear Programming(LP) and Integer Linear Programming (ILP)	2pm - 5pm	Solving LP & ILP using Excel, R professional Packages
10-Mar-19	Sunday	10am - 1pm	Basic Optimization Models	2pm - 5pm	Practicals
17-Mar-19	Sunday	10am - 1pm	Basic Optimization Models	2pm - 5pm	Practicals
24-Mar-19	Sunday	10am - 1pm	Inventory Models	2pm - 5pm	Inventory Models
31-Mar-19	Sunday	10am - 1pm	Queueing Problems	2pm - 5pm	Queueing Problems
7-Apr-19	Sunday	10am - 1pm	Simulation	2pm - 5pm	Simulation
14-Apr-19	Sunday	10am - 1pm	Case Studies	2pm - 5pm	Valedictory

Venue for Classroom Sessions: Indian Statistical Institute, Street No.8, Habsiguda, Hyderabad

Certification: Participation certificate will be given to the participants on successful completion.

Course Fee: Rs. 25000/- plus Rs.4500/- GST (@18%) per participant (Total Rs. 29500/-).

Payment Mode : Demand Draft drawn in the favour of 'Indian Statistical Institute', Payable at Hyderabad or Online Bank Transfer.

Online Transfer Details : Bank : Syndicate Bank, J S N Colony, Habsiguda, Hyderabad. Name of the Accountholder : Indian Statistical Institute, Current Account No : 30451010000079, IFSC Code : SYNB0003045

Last date for receiving applications: February 15, 2019.

The application form can be downloaded from the website www.isihyd.ac.in or can be obtained from Course Coordinator. Filled in application form along with course fee should reach ISI on or before February 15, 2019. **Number of seats is limited to 20.**

For further details, contact the Course Director/Coordinator at the following address:

Dr. G S R Murthy & Dr. Bobby John
Course Directors
Indian Statistical Institute
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K Venkata Ramana
Course Coordinator
vrkota@gmail.com

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Optimal Decision Making through Intelligent Modelling
[February – April 2019]**

REGISTRATION FORM

Last date for registration : February 15, 2019

Name :

Organization :

Sponsorship :

Mailing Address:

Phone : (M)

(O)

(R)

E-mail :

FAX :

Participant Profile : Please enclose a brief background about yourself.

Course Fee: Rs. 25,000/- + GST 4500/- (@18%): Rs. 29,500/- (Total)

Payment Particulars

Amount :

DD No.

Date:

Bank:

Branch:

Signature :

Name :

Date :