

**A tribute to late Professor T Parthasarathy**  
**Optimization Tools for Business Analytics**  
**Optimal Decision Making Through Intelligent Modelling**

*Indian Statistical Institute, Hyderabad, is happy to invite you to join us for a special programme (Hybrid mode, online+offline) honouring the remarkable legacy of Late Professor T Parthasarathy. A visionary in his field, Professor Parthasarathy's contributions to Game Theory, Mathematical Programming and Optimization have left an indelible mark, inspiring generations of students, research scholars and academic fraternity alike. A Book specially developed by the faculty dedicated to Professor Parthasarathy will be distributed to all the participants.*

**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. Majority of contemporary training programs, including courses offered in academic programs at both undergraduate and postgraduate levels, predominantly emphasize theoretical foundations. Consequently, learners and beneficiaries often miss the opportunity to appreciate the practical applications and benefits inherent in the field of Operations Research.

This program has been meticulously designed with the primary objective of fostering awareness and motivation among recipients, emphasizing minimal theoretical content and maximizing practical applications. The focal point lies in highlighting the significance of modelling within the field of Operations Research. The program should be particularly useful to those who are involved in teaching and promoting Operations Research and hence may be considered as a *Faculty Development Program*. Additionally, as the mathematical content in the program is kept at a minimal level, it offers great learning potential to students as well as industrial executives.

**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:** This programme will be useful to faculty teaching Optimization/Mathematical Modelling, students pursuing studies in Statistics/Applied Mathematics/Machine Learning/Data Science and Industrial executives. Participants are expected to have acquaintance with mathematics at the intermediate level.

**Programme Schedule:** This programme will be conducted in hybrid mode. that is both **online and offline**. The schedule for the sessions is given in the annexure. The initial online sessions will be focusing on the background subject with examples. The off line sessions will focus more on applications. To facilitate those who cannot attend off line sessions, the off line sessions will be open to online as well. Also, recordings of all the sessions will be shared with the participants.

**Certification:** Participants with a minimum of 75% attendance will be issued a certificate after completion of the programme. *Based on the evaluation by the faculty, the top performer will be awarded a special prize and certificate.*

**Course Fee:** The course fee is Rs. 4,250/- plus GST@18%.

**Last date for receiving applications: April 11, 2024.**

The application form can be downloaded from the website or can be obtained from Course Coordinator. Filled in application form, without payment, should reach us by email on or before April 11, 2023.

**Mode of Payment :** Selected/eligible candidates need to pay the fee in the form of Demand Draft drawn in favour of "Indian Statistical Institute", Payable at Hyderabad or Online (NEFT) Bank Transfer (Name of the Account holder: Indian Statistical Institute, Current A/C No : 30451010000079 IFSC Code : CNRB0013045, Canara Bank, J S N Colony, Habsiguda, Hyderabad.). **Payment should be made only after receiving the admission confirmation from the course Director/Coordinator.**

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

**Dr. G S R Murthy**  
Course Director  
[murthygsr@gmail.com](mailto:murthygsr@gmail.com)

**K Venkata Ramana**  
Course Coordinator  
[vrkota@isihyd.ac.in](mailto:vrkota@isihyd.ac.in)

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**Programme on**  
**Optimization Tools for Business Analytics**  
**Optimal Decision Making through Intelligent Modelling**  
[Through online and offline sessions from April 2024 to May 2024]

**REGISTRATION FORM**

**Last date for registration : April 11, 2024**

Name :

Designation :

Organization/Institution :

Mailing Address:

Phone : (M) (O) (R)

E-mail : FAX :

Participant Profile : Please enclose a brief background about yourself.

Course Fee: Rs. 4250/- + GST 765/- (@18%): Rs. 5,015/- (Total)

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Payment Particulars

Amount : DD No. / NEFT No.

Bank: Date:

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Signature :

Date:

# Annexure: Programme Schedule

## Programme Schedule

Apr-24						May-24					
Sun		7	14	21	28		5	14	21	28	
Mon	1	8	15	22	29		6	15	22	29	
Tue	2	9	16	23	30		7	16	23	30	
Wed	3	10	17	24		1	8	17	24	31	
Thu	4	11	18	25		2	9	18	25		
Fri	5	12	19	26		3	10	19	26		
Sat	6	13	20	27		4	11	20	27		

Off line sessions at ISI, hyderabad from from 9am to 4pm with 1hr lunch break

**Morning Batch: Online sessions: 6:15am to 7:15 am**

**Afternoon Batch: Online sessions: 5pm to 6pm**