



## Executive Management Program on Supply Chain Analytics

(08<sup>th</sup> February 2020 to 26<sup>th</sup> April 2020, Classes on Weekends)

### Background:

Supply chains are complex systems involving multiple stakeholders, businesses and organizations with different goals and objectives. Analytical methods and techniques are used by industry practitioners to improve and manage their supply chains. This executive course introduces the primary methods and tools that are applied in supply chains. The course focus on the application of these methods, and also on the theoretical underpinnings. This is a hands-on course. Participants will use spreadsheets analysis and other modeling software to apply techniques and approaches using case studies and business scenarios drawn from actual supply chains in DMS, IIT Delhi.

### Programme Objectives:

1. Building descriptive, predictive and prescriptive analytics in supply chain.
2. Applying analytical methods in supply chain analytics.
3. Applying probability/stochastic in supply chain analytics.
4. Statistics in supply chains.
5. Formulating and solving optimization models.
6. Understand the use of various descriptive, predictive and prescriptive models in supply chain analytics.

### Topics:

Supplier Analytics, Procurement Analytics, Inventory Management (Multi-criteria ABC analysis, multi-period, single period, news vendor problem), Sales and Operations Analytics, Predictive Analytics, Revenue and Pricing Analytics, Sustainable Supply Chain Practices, Warehouse location analytics, Warehouse Management, Digital Supply Chain, Logistics and Distribution Analytics.

### Techniques:

Multi-criteria decision making techniques i.e. AHP, ANP, TOPSIS, DEA, Forecasting Techniques, Linear Regression Analysis, Linear and Integer Programming, Goal Programming, and Monte-carlo simulation.

### Tools:

Hands on experience in Spreadsheet Modeling using Excel, Expert Choice, LINGO and R. In addition, cases will be also used as one of the pedagogical tool. Course also includes capstone projects.

### Note:

- This is a certificate programme under continuing education of IIT Delhi and not a Degree Programme.
- Certificate of participation in the programme is given on crossing 50% marks in assessment with over 75% attendance.
- 12 days of classes during weekends

### Program Coordinators:

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**Session Experts:** IIT Delhi faculty and domain experts.

**For whom:** Working professionals, entrepreneurs, owner-managers, senior / mid-level managers, and young graduates.

**How to Apply:** Fill the online application form by clicking <https://forms.gle/iRPZYQWcWMCE5Jzz5> or scanning the QR code.

### Dates:

Call for applications: 01<sup>st</sup> December, 2019.  
Last date for application: 10<sup>th</sup> January, 2020.

Final list of selection: 15<sup>th</sup> January, 2020.  
Registration deadline: 21<sup>st</sup> January, 2020.

**Selection Process:** All graduates are eligible. However, work experience and academic background would be used for short-listing. Shortlisted applicants will be informed for registration against payment of fees to IITD. Class size will be of 30 participants.

**Program Fees:** Rs.1,18,000 (Course fee + GST@18%).