

# Executive Program in Supply Chain Management During Uncertain Times

From IIM Lucknow



## Program Overview

The Executive Program in Supply Chain Management During Uncertain Times, from IIM Lucknow, seeks to help working professionals develop capabilities that will enable them to make effective managerial decisions and tackle complex challenges involving supply chain uncertainty amidst the global pandemic. The course focuses on developing the participant's functional management skills, strategic planning, and complimentary problem-solving skills to enhance their technical expertise. This course also aims to develop the modeling and analytical capabilities of the participants, which are crucial for higher-level managerial responsibilities.

Taught by the eminent faculty of IIM Lucknow and covering the entire gamut of SCM concepts ranging from SC planning and strategic alignment, inventory management, logistics and transportation management to SC analytics and technological innovations within supply chain management, this course serves as an essential building block for the career progression of participants. This course also covers the application of contemporary and emerging technologies such as Supply Chain Digital Transformation, Industry 4.0 Applications in Supply Chains – Blockchain, IoT, Digital fulfilment, Omnichannel and Circular Supply Chains etc.

### Upon completion of this course, participants are expected to

- » Understand and analyze the supply chain management issues in a firm
- » Apply logistics and purchasing concepts to improve supply chain operations
- » Demonstrate an overall knowledge of supply chain in the areas of transportation, purchasing inventory management and customer service
- » Understanding the role of inventory management in overall planning and execution of supply chain management
- » Understanding the issues and challenges in warehouse management, its role in the allocation and accumulation of goods in the supply chain
- » Articulate the consequences of real decisions that impacts the supply chain. These include, but are not limited to cost, quality, customer service, coordination, and outsourcing
- » Understand the application of latest technologies such as Industry 4.0, Blockchain Technology, IOT, Dynamic Pricing etc in supply chain environment during uncertain times

## Program Highlights



### Opportunity to earn a Certificate of Completion from IIM Lucknow

Upon successful completion of the course, participants will get a certificate of completion from IIM Lucknow



### Gain Comprehensive Knowledge of SC Concepts, Applications and New Age Trends

Gain a 360 degree comprehensive understanding of relevant SC concepts and how this knowledge can be applied to solve complex and new age SC challenges in a VUCA world



### Apply Contemporary and Emerging Technologies to SCM Challenges

Understand the application of latest technologies such as Industry 4.0, Blockchain Technology, IOT, Dynamic Pricing etc. in the SC domain



### Work on a Capstone Project

A capstone project that allows participants to identify and work on real-life supply chain problems through intellectual application of the knowledge gained through the duration of the course



### 3 day On-Campus Intervention

3 day on-campus immersion module providing participants the opportunity to experience the campus environment, interact with faculty and network with peers



### Qualify for Executive Alumni status from IIM Lucknow

Participants successfully completing the program and registering with IIM L, by paying a one-time alumni fee will receive an MDP Executive Alumni status from IIM Lucknow

## Eligibility

### Education

- »» **For Indian Participants** - Graduates (10+2+3) or Diploma Holders (only 10+2+3) from a recognized university (UGC/AICTE/DEC/AIU/State Government) in any discipline with minimum 50% marks
- »» **For International Participants** - Graduation or equivalent degree from any recognized University or Institution in their respective country
- »» Proficiency in English, spoken and written, is mandatory

### Work Experience

- »» Working professionals with a minimum of **2 years** of work experience

\*For program aspirants with more than 20 years of work experience, selection will be on a case to case basis

## Who should Attend

- »» Middle level managers who need to comprehend and deploy contemporary and emerging technologies to tackle complex SC challenges during uncertain times
- »» SC professionals seeking to learn hands on skills and effective managerial competencies in an increasingly digitized environment
- »» Experienced executives who want to develop their modeling and analytical capabilities and gain an in-depth understanding of the various facets of supply chain and their interdependencies
- »» Young professionals aspiring to establish and grow their careers in the Supply Chain domain

## Pedagogy

The primary method of instruction will be through LIVE lectures that will be using an online platform via Internet to student desktops/laptops or classrooms. The pedagogy will comprise of a balanced mix of lectures, case studies, hands-on analytics exercises, games, live-corporate examples, and general discussions. All enrolled students will also be provided access Talentedge's SLIQ platform through which students may access other learning aids, reference materials and assessments, case studies, projects and assignments as appropriate. Throughout the duration of the course, students will have the flexibility to reach out to the professors, real time during the class or offline via the SLIQ platform to raise questions and clear their doubts.

# Syllabus

## Module 1 - Fundamentals of Operations Management

- »» Operations Strategy and Competitiveness
- »» Product Design and Development
- »» Design of Manufacturing & Service Processes
- »» Process Analysis
- »» Principles of Project Management

## Module 2 - Introduction to Supply Chain Management & Supply Chain Strategy

- »» Key Performance Drivers
- »» Supply Chain Processes and Decisions
- »» Supply Chain Strategy
- »» Supply Chain Network Design
- »» Facility Location

## Module 3 - Demand Forecasting

- »» Time-series Forecasting
- »» Seasonal Forecasting Models
- »» Managing Demand Variability
- »» Scale and Capacity Planning
- »» Advanced Forecasting Models

## Module 4 - Supply Chain Planning

- »» Sales and Operations Planning
- »» Material Requirement Planning
- »» Operations Scheduling & Control
- »» JIT & Quality Management
- »» Designing Lean and Agile Supply Chains

## Module 5 - Inventory and Warehouse Management

- »» Independent Demand Systems
- »» Inventory Control
- »» Service Levels and Tradeoffs
- »» Warehouse Operations
- »» Warehouse Performance and Storage Issues

## Module 6 - Sourcing, Supplier Relationships and Supply Chain Coordination

- »» Make-Buy Decisions, Outsourcing/ Off-shoring
- »» Replenishment Approaches & Vendor Managed Inventory
- »» Bullwhip Effect
- »» Supply Contracts
- »» Role of Information and Technology in Supply Chains

## Module 7 - Dynamic Pricing in a Supply Chain

- »» Introduction to Dynamic Pricing
- »» The success of dynamic pricing in various industries
- »» Pricing analytics to exploit market opportunities
- »» Auctions in supply chain
- »» Online advertisement auctions of Google, Facebook

## Module 8 - Logistics and Transportation Management

- »» Logistics: Importance and Issues
- »» Transportation Modes
- »» Networks and Tradeoffs
- »» Cross-docking and Consolidation
- »» Transshipment

# Syllabus

## **Module 9 - Supply Chain Analytics and Sustainable Supply Chains**

- ▶▶ Performance Management
- ▶▶ Vehicle Routing and Scheduling
- ▶▶ Supply Chain Optimization
- ▶▶ Sustainable SC Strategy
- ▶▶ Green Logistics

## **Module 10- Technological Innovations within Supply Chain Management**

- ▶▶ Supply Chain Digital Transformation
- ▶▶ Industry 4.0 Applications in Supply Chains – Blockchain, IoT etc.
- ▶▶ Digital fulfilment, Omnichannel and Circular Supply Chains
- ▶▶ End-to-end Supply Chain Risk Management
- ▶▶ The Future of Supply Networks

## **Module 11 - Capstone Project**

Participants will work over a real-life supply chain problem to apply the knowledge gained during the course. There can be individual or group projects

## **Campus Component**

This program includes 3 days of on-campus intervention, which will take place at IIM Lucknow. The dates for the on-campus modules will be communicated subsequently. Attendance to the campus component is mandatory for all participants. However, the campus visit dates may be rescheduled due to any revised advisory from the government authorities or the institute's policy on residential training, owing to COVID-19 related developments at that time. In case of such rescheduling, adequate notice will be provided to participants to make necessary travel arrangements.

## Faculty



### **Dr. Suresh K Jakhar**

M.Tech (IIT Delhi), PhD (IIT Roorkee)

Dr. Suresh K Jakhar is currently working as an Associate Professor at Operations Management Group at IIM Lucknow. Currently, he is also holding the responsibility of Chairman, OM Area. At IIM Lucknow he is teaching courses like Revenue Management and Dynamic Pricing (Term IV) Game Theory and Mechanism Design (Term V) and Supply Chain Management (Term III). He has guided 4 doctoral students at IIM Lucknow. He has also conducted more than 50 training programs for various MNCs, PSUs, and bureaucrats. he has completed his M.Tech from IIT Delhi and Ph.D. from IIT Roorkee. He has published more than 20 research papers in various international journals.



### **Dr. Yash Daultani**

B.Tech. (Hons.), Mechanical Engineering, Fellow, IIM Lucknow

Dr. Yash Daultani is a Faculty member of the Operations Management Group at the IIM Lucknow. Prior to joining the institute, he was with IIITM Gwalior and IMI Kolkata for a brief period.

He holds a Doctoral (Fellow) degree from the Indian Institute of Management Lucknow. He consults and publishes in the areas of supply chain network design, product design, supply chain risk management, and healthcare operations management. He is currently working on Industry 4.0 applications in the domain of operations and supply chain management.

## Certification

Successful candidates will receive a **Certificate of Successful Completion** from IIM Lucknow. Candidates will not qualify for successful Completion if they have COPM less than 50% or/and overall attendance for programme is less than 75%. Participants not fulfilling the requisite criteria will receive a **Certificate of Participation**. However, no Certificate will be issued in cases where attendance to live sessions is less than 40%.



## Assessment

A minimum of 75% attendance to the LIVE lectures is a prerequisite for the successful completion of this course. There are periodic evaluations built-in throughout the duration of the program. These may be in the form of a quiz, assignment, online exam, presentations or projects. The evaluations are designed to ensure continuous student engagement with the program and encourage learning. Participants must have COPM of 50% or more to successfully complete this course.

## Program Details

- »» **Program Commencement:** 26 September 2021
- »» **Schedule of classes:** Sundays from 10.00 a.m. to 01.15 p.m. IST (3 hours)
- »» **Duration:** 9 months

## Program Fee

- »» **For Indian Residents:** INR 1,95,000 + GST
- »» **For International Residents:** USD 3,900  
Instalment Options Available
- »» **Application Fee (One time app processing fee):** Rs.1500 + GST / USD 25

## For More Details

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