



# ADVANCED MANAGEMENT PROGRAMME

# IN DIGITAL SUPPLY CHAIN & OPERATIONS MANAGEMENT

(BATCH - 01)



## **PROFESSOR PRAFULLA Y. AGNIHOTRI**

**Director**

### **Greetings from IIM Sirmaur**

IIM Sirmaur is a third generation IIM which came into existence in 2015. So far six batches of MBA students have graduated from IIM Sirmaur. It is located on the foothills of Himalayas and naturally blessed with moderate climate with minimum air pollution and excellent air connectivity. There are two airports - Dehradun & Chandigarh which connect you to Sirmaur.

IIM Sirmaur offers two full time programmes - Master of Business Administration (General Management) and Master of Business Administration Tourism in its state of the art campus with all modern facilities and a class defining infrastructure.

IIM Sirmaur is poised for a quantum jump. We aspire to be among the top 15 B-Schools in India in next 5 years. We are recruiting some of the finest academicians as faculty members. The faculty of IIM Sirmaur offers the latest curriculum through a participant centric learning pedagogy to its students.

IIM Sirmaur acknowledges the fact that the faculty members are at the core of academic process and offers them academic freedom to decide their teaching and research agenda, gives them a conducive environment to pursue their research agenda and an encouragement to publish their research papers in reputed journals or present their research work in international conferences of repute.

# THE EVOLUTION OF OSCM & INDUSTRY 4.0

The technological advancements that sparked the rise of Industry 4.0 have significantly enhanced efficiency and productivity, greatly benefiting the field of Operations and Supply Chain Management (OSCM). Today, OSCM seamlessly integrates technology, logistics, and strategy, leading to robust responsiveness, visibility, flexibility, transparency, and traceability improvements. However, the remarkable demand generated by digital evolution and Industry 4.0 in OSCM is truly extraordinary.

## DEMAND FOR OPERATIONS & SUPPLY CHAIN MANAGEMENT (OSCM) PROFESSIONALS IN INDIA



### Economic Growth

India's expanding economy drives the need for OSCM professionals to enhance efficiency.



### E-Commerce Boom

The rapid growth of e-commerce creates demand for experts in logistics and delivery management.



### Manufacturing Initiatives

Programs like "Make in India" increase the need for skilled OSCM professionals in manufacturing.



### Digital Transformation

Adoption of AI and automation necessitates OSCM experts to integrate new technologies.



### Sustainability Focus

Growing emphasis on eco-friendly practices boosts demand for professionals in sustainable supply chain strategies.

# FUTURE LANDSCAPE OF OPERATIONS & SUPPLY CHAIN MANAGEMENT (OSCM) IN INDIA



## Digital Transformation

Increased adoption of AI, machine learning, and automation will enhance decision-making, optimise processes, and improve efficiency in supply chains.

## Sustainability Practices

A growing focus on sustainable supply chains will drive companies to implement eco-friendly practices and reduce carbon footprints.



## Data Analytics

The use of big data and analytics will enable better forecasting, risk management, and inventory optimisation, leading to more agile supply chains.

## Resilience Building

Companies will prioritise building resilient supply chains capable of adapting to disruptions, such as pandemics or geopolitical issues.



## Program Overview

The Advanced Management Programme in Digital Supply Chain & Operations Management by IIM Sirmaur is designed to meet the increasing need for tech-business managers in the manufacturing and services sector. The core focus remains on modules in the supply chain and operations domain, with emphasis on new-age skills.

The AMPDSCOM program is specifically designed to train SCM professionals to manage the critical roles of technology in business operational components such as logistics, procurement, inventory, and vendor management. The program imbues the skills in the learners to manage operational processes, increase revenue and improve customer experience. The industry-oriented, cutting-edge curriculum prepares students for the evolving supply chain management industry and assists them in obtaining positions with top supply chain management market players.

## Learning Outcomes

Identify the essential managerial skills needed to thrive in today's dynamic supply chain environment.

Develop analytical and problem-solving skills necessary to create solutions for various complex operations and supply chain management challenges.

Gain an understanding of how information technology can be utilised for optimising operations and supply chain management.

Efficiently plan, oversee, manage, and regulate the flow of goods and services.

Achieve mastery of advanced concepts such as process design, product-process matrix, risk pooling, bullwhip effect, Six Sigma metrics, project portfolio management, and Supply Chain 4.0.

Develop core competencies in network design, information flow management, decision modeling, and aggregate planning.

# Program Highlights

The program will expose the learners to New-Age Digital Supply Chain Management concepts.

The course ensures the students focus on simplifying, streamlining and using technology to increase efficiency and create better career pathways in the supply chain management industry.

Our program focuses on the critical components of establishing a Digitally Enabled Supply Chain.

Aspirants will learn to use technology to improve operational efficiency and decision-making throughout the supply chain program.

Learners will get the opportunity to work on 15+ case studies, 1 complete end- to-end simulation project, and 2+ industry-recognized tools.

01

The real-world, case-based course structure is designed to improve the application of theoretical concepts to real-world problems.

02

Deep dive and learn the insights of digital SCM from renowned IIM Sirmaur Professors, who share their areas of expertise to ensure that the learner is thorough with the core concepts.

03

Deep dive and learn the insights of digital SCM from renowned IIM Sirmaur Professors, who share their areas of expertise to ensure that the learner is thorough with the core concepts.

04

During the program, all the learners will have the opportunity to visit for 3 Days at IIM Sirmaur as a part of campus immersion. This will allow them to meet their peers and the IIM faculties panel in person. They will get an opportunity to network, expand their professional network and increase their net worth.

# WHO SHOULD JOIN?

01

The minimum education qualification for candidates to apply for this program is a UG Qualification.

02

Diploma (10+2+3) or a Bachelor's Degree or equivalent (10+2+3) from a recognised university/institute.

03

Candidates require a minimum of 1+ year experience in Supply Chain Management and related roles and a basic understanding of programming concepts and mathematics.

The programme is designed for professionals in the manufacturing, services, logistics, and supply-chain sectors, preferably with a work experience of at least one year. These can include:

01

CXOs and other senior executives in decision-making positions or technical roles

02

Managers responsible for key deliverables in large-scale operations

03

Entrepreneurs, management and growth consultants

# Duration 8 Months

## Course Schedule | Day and Time | Sundays

**First session**  
**(9:00 AM – 10:30 AM)**

**Second session**  
**(10:45 AM – 12:15 PM)**

## Total Number of Hours

**Online + Campus  
Immersion for 3 Days**

**126 Hours.**  
**(Live Online – 108 Hours. +  
Campus Immersion – 18  
Hours)**





# Course Content

Digital Supply Chain  
Fundamentals & Business  
Transformation 1.0 [20  
Hours] [Feb-Mar]

Introduction To Digital  
Supply Chain  
Management

Supply Chain Design,  
Strategy, Planning and  
Operation

Trade-off Cost Factor  
v/s Service Factor

Distribution Network

Design of Manufacturing  
Systems & Facility Layout  
Implications

Process Flow  
Analysis

Demand Forecasting  
& Capacity Planning

Sales and  
Operations Planning

Service Strategy  
and Design of  
Service Systems

Applications of Industry  
4.0 in Operations & Supply  
Chain Management

Role of AI, ML, and IoT in  
Digital Transformation

SC Digital Transformation  
and Use Cases of SC  
Digital Twins

Need For Digital Supply  
Chain Strategy

All About Sensors, IoT,  
Robotics, Drones, 3D  
Printing

Formulate SC Strategy

Digital Supply Chain  
Metrics

DSCM Key  
Components

DSCM Performance  
Metrics Research  
Framework

Change Management  
and Governance

# Technology In Procurement Logistics & Inventory

## Management

Purchasing Process, Objective  
and Responsibilities

Integration

Strategic Sourcing

Supply Management

Supplier Performance  
Measurement

Worldwide Sourcing

Future Trends In Global  
Sourcing

Inventory And Types of Goods

Raw Material Inventory

Packaging Material Inventory

MRO / Spares Inventory

Top 8 Inventory Control  
Techniques

Top 5 Inventory Management  
Techniques

Safety Stock for RM / PM

Inventory Management  
Software

Logistics Management

Customer Service Model

Key Logistics Planning  
Frameworks

Warehousing And Storage  
Management Processes

Trends In Logistics Technology

Logistics Planning Software

# CAMPUS IMMERSION

## 4 Days at IIM Sirmaur Campus

Minitab, Project Management Based Software's, Simulations (In Campus Tentative)

Quality Management & Lean Six Sigma (20 Hours) (Jun-Jul)

Total Quality Management

Lean Management Principles & Lean Six Sigma

Introduction to Quality Management

Dimensions of Quality

Costs of Poor Quality

Kano Model

Quality Function Deployment (QFD)

Process capability

DMAIC Methodology

Define phase

Project Charter

CTQ

Measure phase

PCA

DCP

MSA

Analyze Phase

Process door approach

Data door approach

DMAIC Methodology

Improve Phase

Various techniques to shortlist the solutions

FMEA

Control Phase

SPC

Control Charts

# Project Management Concept & Tools

## Key Highlights

01

Project Planning,  
Organization & WBS

02

Project Scheduling  
CPM & PERT

03

Project Resources  
Management & Monitoring

04

Project Risk Management

05

MS Project

## Capstone Project

01

Retail & E-Commerce  
Operations

02

Retail & E-Commerce  
Operations - Brick and  
Mortar Retail

03

Retail & E-Commerce  
Operations - Online Retail

04

Platform Business Models

# IIM SIRMAUR EXECUTIVE ALUMNI STATUS BENEFITS

## Networking

Access to a network of alumni, including through a LinkedIn group

## Events

Invitations to events, such as seminars, conferences, and offsite events

## Discounts

Discounts on future courses and programs at IIM Sirmaur

## Newsletters and brochures

Regular updates and newsletters from IIM Sirmaur

## Library access

Access to the IIM Sirmaur's campus library





### Course Benefits to Participants

Opportunity to gain a Certificate of Completion/Participation from INSTITUTE.



### Certificate of Completion

A Certificate of Completion will be issued to the participant who will fulfil all criteria (Attendance & Evaluation) related to completion of the course.



### Certificate of Participation

A Certificate of Participation will be issued to the participant who fails to fulfil criteria (Attendance & Evaluation) related to the completion of the course.



Course content and structure are designed entirely by INSTITUTE.  
Lectures delivered by the eminent faculty from INSTITUTE and other INSTITUTES.

# Mode Of Engagement

IIM Sirmaur will provide the sample certificate, which will be uploaded to PW website for participants' information and to avoid any misinterpretation.

Since the participant application process as well as the payment gateway is online and is supported digitally, for promoting the said course, IIM Sirmaur will permit the PW to use the brand and logo of IIM Sirmaur for promotion through physical and digital media channels and for this purpose will provide the necessary co-operation.

PW will conduct digital marketing activities like mass emailers, advertisements, tele-calling, lead generation or any such activity to promote the Program and enable participant enrolments for the same.

Program-related market research and the price for the program are mutually agreed to between both the parties.



# PROGRAM DIRECTOR'S PROFILE

Prof. (Dr.) Mohita Gangwar Sharma is a Professor in Operations Management at Indian Institute of Management Sirmaur. She taught at FORE School of Management for 12 years. Prof. Mohita G. Sharma is an electrical engineer from IIT-BHU, Varanasi and Masters in International Business from Indian Institute of Foreign Trade (IIFT), New Delhi. She is a recipient of the coveted N.T.S.E Scholarship. She has also won the National Education Leadership Award - Best Teacher in Operations Management for the year 2013. She obtained her Doctorate from Indian Institute of Management, Lucknow, making seminal contribution in the area of Spare Parts Management. She won the Best Paper Award at the Doctoral Consortium of the "Thirteenth Society of Operations Management" conference held at IIT Madras in 2019. She has worked in the transportation and power industry for 16 years. She has participated in National and International Conferences and has published case study at Richard Ivey School of Business, Western Ontario, jointly distributed by Ivey and Harvard Business School. She brings the rich experience of the industry and tough academic rigor to her research. Her current areas of research include Service Operations, Humanitarian Supply Chain and Sustainability.



**DR. MOHITA  
GANGWAR SHARMA**  
PROFESSOR



**DR. MANISH SARKHEL**  
ASSISTANT PROFESSOR

Professor Manish Sarkhel has worked as an Assistant Professor at Xavier Institute of Management, Bhubaneswar (XIMB), T.A. Pai Institute of Management (TAPMI) & Woxsen University, Hyderabad. He has also been a visiting professor at IIM Amritsar & XIMB. He has done his Ph.D from IIM Indore. His teaching interests lie in the domain of Operations Management and Analytics. He has taught subjects such as Operations Management, Supply Chain Management, Service Operations Management, Modelling with Spreadsheets, Project Management, Python Programming, Artificial Intelligence Using Python, Data Analytics Using Python & R, Financial Analytics Using Python, Excel, and Visual Analytics Using Tableau & Power BI. His research interests lie at the interface of Game Theory, Artificial Intelligence, Non-linear Programming and Networks. Prior to his Ph.D, he has worked in the Engineering, Procurement, and Construction Industry and has experience in installation, automation and operation of material handling units in steel production plants.



# TECHNOLOGY BENEFITS OF PW

Learn from Anywhere – Participants may learn from the comfort of his/her location and can learn from various PW learning centres spread across India.

01

Fully Online Course with LIVE online Interactive lectures that provide a “real” classroom experience in a “virtual” environment. No Isolated experience.

02

Seamless technology that can transmit lecture videos effectively at home

03

User-friendly and easy-to-use technology interface. No expensive and time-consuming software/hardware installations required at the participant end.

04

Virtual Classrooms that allow for active interactions with other fellow participants and faculty.

05

Convenient weekend schedules

06

Easy access to course presentations, projects, case studies, assignments and other reference materials as applicable for specified courses through a robust LMS.

07

Participants can raise questions and doubts during the live class.

08

# FEE STRUCTURE

## ALUMNI STATUS (OPTIONAL)

Participants will be awarded with "Executive Alumni Status of IIM Sirmaur" upon successful programme completion and subsequent payment of alumni fees.

## TOTAL FEES

PARTICULARS	AMOUNT (IN INR)
<b>Application Fee</b> (At the time of registration)	<b>2,500/-</b>
<b>Programme Fee</b>	<b>1,50,000/-</b>
<b>Alumni Fee</b> (Optional)	<b>One-Time: 2,000 + GST</b> <b>Life-Time: 10,000 + GST</b>
<b>Total Fee</b> (Excluding Application Fee & Alumni Fee)	<b>1,50,000/-</b>

### Note:

- All fees which are mentioned above is per participant cost
- Collection of all above fees, will be done by PW
- In case the Applicant's profile is rejected by the Institute application charges of INR 2,500/- would be non-refundable

## INSTALMENT SCHEDULE

PARTICULARS	I	II	III	
DATE	At the time of Application	Within One Week of Offer Letter	10 <sup>th</sup> April 2025	10 <sup>th</sup> July 2025
AMOUNT (IN INR)	2,500	50,000	50,000	50,000

## PROGRAMME TIMELINES

Application Closure Date	Refer the Website <a href="https://shorturl.at/F6hnk">https://shorturl.at/F6hnk</a>
Programme Start Date	16th February 2025
Programme End Date	October 2025

# — ABOUT — IIM SIRMAUR

Indian Institute of Management (IIM) Sirmaur, an institute of National importance setup by the Government of India started its operations with a small batch of 20 students on September 4, 2015 from its transit campus located at Paonta Sahib, District Sirmaur, Himachal Pradesh. The institute started its academic activities for the 2 years full-time residential MBA programme under the mentorship of IIM Lucknow.

On October 6, 2016, a total land of 210 acres (1010.5 Bighas) was allotted and transferred to the institute for the construction of its permanent campus at Dhaula Kuan, District Sirmaur, Himachal Pradesh. The year 2018 has been a landmark in the academic arena of the institute with a tie-up with the prestigious SDA Bocconi School of Management (Milan, Italy) for the International Immersion programme of MBA students. For two consecutive years 2018-19, the MBA students post their summer internship programme attended two full credit courses at Milan over a period of 3 weeks with the credits being transferred by SDA to IIM Sirmaur.

Apart from academic excellence and the placements of students, IIM Sirmaur also strives to work with the local community to address the issues of livelihood, entrepreneurship, environment, waste management, sustainability, etc.

The faculty at IIM Sirmaur includes the best brains from across the world with PhDs from premier institutions from India and abroad. Apart from rigorous classroom teaching, the faculty of the institute are involved in funded projects, Management Development Programmes (MDPs), Faculty Development Programmes (FDPs), consultancies, cutting-edge research etc. The faculty of the institute publishes regularly in top-category journals listed in ABDC, ABS etc.

# — ABOUT — PW MEDHARTHI

PW Medharthi is dedicated to transforming the education landscape in India. Founded on the belief that quality affordable learning should be accessible to all, we leverage innovative technology and engaging content to create enriching educational experiences.

We at PW Medharthi understand the diverse needs of learners across the country.

Our comprehensive platform offers tailored solutions, from interactive courses to skill-building resources, designed to empower students, educators, and institutions alike. Focusing on academic excellence and personal growth, we collaborate with IITs & IIMs, as well as other premium institutes, to bridge the gap between traditional learning methods and the demands of a rapidly evolving digital world.

Join us on our mission to bridge the gap between theoretical knowledge and real-world application, inspire curiosity, foster creativity, and cultivate lifelong learners, as we reshape the future of education in India and beyond. Together, let's unlock the potential of every learner!



**PHYSICS  
WALLAH**

# —CONTACT— INFORMATION

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