



भारतीय प्रबंध संस्थान काशीपुर
Indian Institute of Management Kashipur



10th Batch

EXECUTIVE DEVELOPMENT PROGRAM IN OPERATIONS MANAGEMENT WITH SIX SIGMA

Online Classes & Campus Immersion





ABOUT IIM KASHIPUR

The Indian Institute of Management Kashipur is set up with the mission to drive academic excellence using innovative teaching methods, promoting research and practice of sustainable leadership. The institute commenced operations in July 2011 with a vision to become, over the next 10 years, one of the top business schools in India developing leaders who can perform globally. The fraternity diligently follows the core values of mutual respect, lifelong learning, the pursuit of excellence, transparency, and integrity.

The flagship program of the institute are Master of Business Administration (MBA) and Master of Business Administration (Analytics) which are full time, two-year residential programs. The institute also offers a two-year weekend Executive Master in Business Administration (MBA-WX) for working executives. Doctoral Program– PhD and Executive Fellow Program (EFPM) are the two doctoral programs launched in 2015 and 2014 respectively. The faculty at IIM Kashipur represents one of the best mixes of academic and industrial experiences.

The 200-acre campus spreads loudness and cheers in the serene town of Kashipur, nestled in the lap of Himalayas. The vibrant youth converging from across the country has lent life to and energized the beautiful campus. The institute brags of being situated in one of the densest industrialised districts in the nation with more than 180 ventures that have set up their plants in and around the region. This places the institution at advantage moment when it comes to 'Learning by Doing' through regular industry interaction and live projects.

ABOUT NULEARN

Nulearn is one of the leading Ed-Tech startups in India. We partner with top IIMs and global business schools to curate and deliver the best and most relevant executive programs for working professionals. We deliver best-in-class service to our students, which is accomplished by our constant focus on quality, integrity, consistency and customer focus. Our state-of-the-art Learning Management System (LMS) ensures a smooth and high quality learning experience for professionals. Learn from anywhere and take your career to the next level with Nulearn.



ABOUT THE PROGRAM

In the present context, for Indian companies to survive and grow in global marketplace, they must use Operations Management and Six Sigma principles to understand customer requirements and improve the quality of goods and services to world-class levels.

This program would revolve around the key concepts, the process of implementation and the specific challenges of Six Sigma.

The program also teaches the basic statistical tools and techniques used in Six Sigma. The program will be conducted on the various phases of DMAIC model to enable the participants to work in terms of methodology, tools & techniques.

The objectives of this course are:

- To enable participants to obtain a good understanding of the philosophy and principles of Operations Management and Six Sigma.
- To enable participants to effectively plan for quality, control quality and eventually improve quality of the goods and services of your company.
- The Six sigma program is designed on the various phases of DMAIC model (Define, Measure, Analyze, Improve, Control) to enable the participants to work in terms of methodology, tools & techniques. Each concept will be supported by case studies/assignment and class exercises.
- The participants will be given exposure to solve problems in MS Excel & Minitab. Each session would have reading material, which the participant is expected to read and come to the class.

WHO SHOULD ATTEND?

- Professionals who are looking to upgrade their career in Operations Management, Quality, lean or Six Sigma.
- Project Managers, Supply chain Managers, Quality Managers, Plant Managers or other functional managers.
- Working professionals in an organization with an acumen and interest in Operations Management

PROGRAM HIGHLIGHTS



CERTIFICATION FROM IIM KASHIPUR

On successful completion of the program, the students will receive a certificate of completion in Operations Management with Six Sigma by Indian Institute of Management Kashipur.



WEEKEND ONLINE & INTERACTIVE CLASSES

Classes are held on weekends so that learning and work can be managed together and it's easy for working professionals to attend lectures.



INSIGHTS INTO OPERATIONS MANAGEMENT WITH SIX SIGMA

Participants will gain expertise in the fields of Operations Management, Six Sigma, Lean Six Sigma, Supply Chain Management, Quality Management and more.



GREEN BELT CONCEPTS COVERED

The curriculum extensively covers the DMAIC model and all other elements of the Six Sigma Green Belt certification.



SIX SIGMA USING MINITAB

Learn to apply Six Sigma methodology using Minitab and MS Excel.



INDIA'S TOP FACULTY PANEL

Learn from top IIM faculty panel - Classes by highly qualified professors in the field of Operations.



END TERM PROJECT

Project work is an imperative part of the program as it ensures practical knowledge of all tools and techniques.



CAMPUS VISIT

The program features on campus learning at IIM Kashipur at the end of the program to complement the online component of education.

PROGRAM OUTLINE

Paradigms of Operations Management

- Nature of Operations
- Visualizing Challenges
- Strategies for operational competitiveness

Design of Products and Services

- Describe the concepts of Product Design
- Understand different product design criteria (QFD, VA)
- Describe the concepts of Service Design

Capacity planning

- Describe the concept of capacity management
- Understand the concept of economies and diseconomies of scale
- Apply break-even analysis for capacity planning

Understand the concept of MRP

- Understand the concept of Master Production Schedule
- Develop a system structure for MRP

Project Management

- Project Planning
- Work Breakdown Structure (WBS)
- Organization Breakdown Structure (OBS)
- Responsibility Matrix
- CPM & PERT

Demand Forecasting in SCM

- Characteristics of forecasts
- Classification of forecasting methods
- Measures of forecast error
- Solving forecasting problems using Excel

Inventory & SCM

- Role of Inventory in SCM
- Inventory Control systems
- Inventory Review Systems
- Managing Uncertainty in SCM

Sourcing Management

- Sourcing Strategy and its alignment to Business Strategy
- Total Cost of ownership
- Strategic Sourcing Process & Elements
- Risk Management in Sourcing
- Supplier selection & evaluation
- e-Procurement

PROGRAM OUTLINE

Designing Supply Chain Networks

- Role of network design in supply chains
- Factors influencing network design decisions
- Framework for network design decisions

Managing Information Flows and Bullwhip Effect in Supply Chain

- Understand important supply chain strategies like postponement, risk pooling.

Decision Modeling

- Introduction to steps in problem solving.
- Quantitative analysis and decision making,
- Models for decision- making
- Introduction to Linear Programming

Logistics Management

- Distribution, Transportation, Warehousing, Information technology
- Logistics integration, Outsourcing
- Omni-channel logistics; Downstream Management; End Consumers; Logistics restructuring.

Transportation and Assignment problems

- Formulation and Solution to Transportation problems
- Formulation and Solution to Assignment problems

Quality Overview

- Defining the Quality
- Phases of Customer Satisfaction
- TQM Models
- Quality management gurus

Quality management System

- Using Process Approach to build Quality Management System
- Quality Management System ISO 9001/Quality accreditation systems

Understanding Lean and its applications

- Introduction to Toyota Production System
- History, Philosophy and Applications across various sectors and domains
- Flow Efficiency Vs. Resource Efficiency
- Lean Vs Six Sigma, Lean Six Sigma

Types of Waste MUDA, MURA, MURI

Value Stream Mapping

PROGRAM OUTLINE

Six Sigma Overview

- Six Sigma Philosophy
- Origin of Six Sigma
- Six Sigma Evolution
- Six Sigma Approaches

Recognize Phase

- Create Organization for Six Sigma
- Create Project Hopper
- Select a project
- Project prioritization matrix

Define Phase

- Ensure that the project is important.
 - Project Charter
- Identify the stakeholders and understand their concerns/ requirements connected to the problems.
 - VoC/ VoS
 - Kano Model
 - VoS Template
- Define the measures to represent the concerns/ requirements in terms of Critical to Quality (CTQs)
- Map the macro-level process which consists of the causes and the effect
 - SIPOC

Measure Phase

- Introduction to basic Statistics
- Process Stability Analysis - Normality
- Data Collection Planning
- Collection Methods
- Theory of Sampling
- Root Cause Analysis
- Measurement System Analysis

Analyse Phase

- Analyse the problem to ascertain the status of the problem as chronic, sporadic and unstable
 - Control Charts-Variable, Attribute
- Analyse the process to identify process flow relate real causes
 - Process Maps

PROGRAM OUTLINE

Analyse Phase

- Conclude real causes with estimated confidence
 - Test of Hypothesis
 - Steps for Test of Hypothesis
- Normality test, 1 Sample-t-test, 2-Sample-t-test, One-Way ANOVA,; Chi-square test

Control Concepts

Confirm Improvements: Before-After:

- Test of Hypothesis
- Process Capability
- Pareto Diagram
- Control chart
- Process Map
- Ensure on-line control of improved status
- Ensure on-line control of improved status
 - Document, Standardize & Integrate

TOOLS USED



Excel

NOTE:

Nulearn is the authorized admissions and technology partner for IIM Kashipur, please visit the following link to verify <http://www.iimkashipur.ac.in/executive-education/online-certificate-programme>

EMINENT FACULTY PANEL



Prof. Kunal K. Ganguly
PhD (IIT Kharagpur)

Dr. Kunal Ganguly is an Associate Professor at the Indian Institute of Management Kashipur. He has done his MBA and Ph.D. from Vinod Gupta School of Management, IIT Kharagpur, India and Bachelor of Technology (B Tech.) from NIFFT Ranchi. He has nearly two decades of experience in teaching and industry. He has about six years of corporate experience (in Hindustan Motors Ltd., L&T and Global Information Systems Technology Ltd.).

Apart from teaching at IIM Kashipur, he has also taught in IMT Ghaziabad and KIIT University Bhubaneswar. He has designed and taught courses on Operations Management, Decision Science, Business Statistics and Supply Chain Management. He has conducted on campus and in company training programmes for various companies. He is reviewer to many reputed international journals.

His research has focused on issues of Supply Chain Management. His work on these and related areas has been published in refereed journals such as Benchmarking, Decision, Journal of Business and Industrial Marketing, IIMB Management Review etc. He has co-authored the text book 'Operations Management' by Collier, Evans from Cengage publishers and authored 'Supply side risk assessment' from LAP Lambert Publishers, Germany. He is International contributor to the book "Quality Management" by Foster and "Materials Management" by Chapman from Pearson Edu.

SAMPLE CERTIFICATES

SAMPLE

Enrollment No.
IIMKSP/2022-23/EDP/OMSS-B1/001


IIM KASHIPUR
भारतीय प्रबंध संस्थान काशीपुर
INDIAN INSTITUTE OF MANAGEMENT KASHIPUR

This certificate is awarded to
PARTICIPANT NAME
who has successfully completed the prescribed course, and
fulfilled all other requirements of the
**Executive Development Programme in
Operations Management with Six Sigma**
Conducted by IIM Kashipur
During
dd-mm-yyyy to dd-mm-yyyy

IIM KASHIPUR

Programme Director Assistant Dean, Development Director, IIM Kashipur

SAMPLE

Enrollment No.
IIMKSP/2022-23/EDP/OMSS-B1/001


IIM KASHIPUR
भारतीय प्रबंध संस्थान काशीपुर
INDIAN INSTITUTE OF MANAGEMENT KASHIPUR

This certificate is awarded to
PARTICIPANT NAME
who has participated in the
**Executive Development Programme in
Operations Management with Six Sigma**
Conducted by IIM Kashipur
During
dd-mm-yyyy to dd-mm-yyyy

IIM KASHIPUR

Programme Director Assistant Dean, Development Director, IIM Kashipur

Certification criteria:

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

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



COURSE DELIVERY

Duration: 5 months blended
Delivery mode: Nulearn Plug n Learn
Frequency: Once in a week



COURSE SCHEDULE

3 hours on every Sunday: 06:00 PM- 09:00 PM
Last date to apply : 15th May 2026.



COURSE PEDAGOGY

There are periodic evaluations built in throughout the duration of the course. These may be in the form of a quiz, assignment, presentation, Main business plan, case study, final exam or other objective/subjective assessment. The evaluations are designed to ensure continuous student engagement with the course and encourage practical learning. Students who successfully clear the same along with the requisite attendance criteria will be awarded a Certificate from IIM Kashipur as appropriate.



ELIGIBILITY

- Graduation or equivalent degree from any recognized University or Institute
- Working Professionals from any domain
- Corporate Nominated (graduation criteria maybe considered for exemption in cases where participants have some prior experience in the respective domain)



PAYMENT MODE

Online payment or DD in favor of “Human Racers Advisory Private Limited” payable at “New Delhi”.



ASSESSMENT CRITERIA

There are periodic evaluations built in throughout the duration of the course. These may be in the form of a quiz, assignment, presentation, Main business plan, case study, final exam or other objective/subjective assessment. The evaluations are designed to ensure continuous student engagement with the course and encourage practical learning. Students who successfully clear the same along with the requisite attendance criteria will be awarded a Certificate from IIM Kashipur as appropriate.



HOW TO APPLY

To apply, working professionals can register at <https://www.nulearn.in> or call at 7669629222 (Toll Free).

FEE STRUCTURE & EMI PLAN

Program Fee:

For Indian Residents

~~INR 90,000 + GST*~~

INR 80,000 + GST

(Early bird discount Limited time offer)

For International Students

\$1600

***Application Fee of 2000/- INR** to be paid at the time of registration

Installment Schedule (Interest Free EMIs):

1st	INR 25,000 + GST* / \$500	Immediate payment upon registration
2nd	INR 30,000 + GST* / \$550	Payment Deadline - 10th June 2026
3rd	INR 25,000 + GST* / \$550	Payment Deadline - 25th July 2026

* Loan option available in 6, 9 & 12 EMIs from loan partners.

* 1% + GST* processing fees will be charged by loan partner in 6/9/12 months EMI.



Admission & Technology Partner

Nulearn

Address: B1/622, 3rd Floor
Spring House Coworking,
Janakpuri, New Delhi - 110058

Email: connect@nulearn.in

Website: www.nulearn.in

Contact No: 76696 29222