



IIM NAGPUR

भारतीय प्रबंध संस्थान नागपुर
Indian Institute of Management Nagpur



Post Graduate Certificate Programme in Operations Management



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IIM Nagpur Director's Message



I take pleasure in welcoming you to IIM Nagpur (IIMN). IIMN was established in 2015 as the first of the third generation IIMs, by the Ministry of Education, Govt. of India.

Its location in Nagpur, the Orange City, makes IIMN equidistant from the major metropolises – Delhi, Chennai, Kolkata, Mumbai – in terms of travel time by air. Since its inception, IIMN has attracted talented faculty members with commendable experience in research and teaching. Faculty members at IIMN are engaged in management consultancy, research, training and industry collaboration for creating and disseminating cutting-edge knowledge.

Its location at the very centre of industrial activity offers IIMN a natural advantage, enabling greater connections and partnerships with businesses across sectors in SEZ and MIDC-designated zones. IIMN's unwavering focus on pioneering exceptional industry partnerships to lead the way in providing real-world experiences, prepares our programme participants for life - bringing 'corporate into classrooms' to hone relevantly skilled talent for the ever-evolving corporate world.

One of the first premier institutions in the country to seamlessly make the shift from physical to online over the past year, IIMN is well-equipped to conduct Executive Education Programmes (EEPs) for executives from public and private sector undertakings. Keeping the New Education Policy (NEP) 2020, digitalisation and lifelong learning in mind, IIMN has launched online certificate programmes for skilling-reskilling-upskilling the executives in highly specialised areas of management. We anticipate that these programmes would enable executives to fully realise the opportunities ahead in a digitally disruptive world.

With its unique advantages, IIMN is an exciting place to learn, grow and be the 'champions of change'. We welcome you to join our IIMN community of faculty, staff, students and alumni who are shaping the future of work.

Dr. Bhimaraya Metri
Director, Indian Institute of Management Nagpur

Programme Overview

Amidst Industry 4.0, manufacturing and operations are more digitally aligned than ever before. Various business functions are also more integrated, and data and insights driven. This systemic shift in the industry has necessitated seamless coordination between various business functions and associated factors to ensure unprecedented efficiencies and business growth. IIM Nagpur's Post Graduate Certificate Programme in Operations Management (PGCPOM) is an 11-month programme designed for working professionals to sharpen their understanding of Operations Management (OM) with a structured and comprehensive domain knowledge.

Programme Objectives

The programme aims to enable participants to:

- Understand key issues pertaining to Operations Management
- Recognise the role of Operations Management in ensuring sustainable competitive advantage
- Acknowledge the need for aligning operations with overall strategy and other functional areas
- Appreciate advances in Operations Management such as Operations Analytics & Industry 4.0

Programme Highlights



Learning Six Sigma
Quality
Management



Introduction to
Toyota Production
System



Capstone Project
and Business
Simulation



Chamber Consulting
by IIM Nagpur
Faculty



A 3-day Campus
Immersion



IIM Nagpur Alumni
Status

Programme Content

The programme will include the following topics:

Topics		Subtopics
1	Operations Strategy	Performance Dimensions, Alignment with Overall Strategy
		Alignment of Operations Management with Other Functional Areas
2	Process Flow and Capacity Analysis	Process Flow Diagram, Bottleneck, Uncertainty
		Volume Variety, Product Process Matrix
3	Sourcing and Supply Chain Coordination	Planning: Aggregate, Materials, Bill of Material, Capacity, Sales & Operations
		Master Production Schedule
		Coordination
		Sourcing Issues, Procurement, Supplier Development
		Make or Buy Decision
		Supply Chain Contracts; <i>Simulation Game</i>
4	Project Analysis	Feasibility Analysis, Project Financing, Project Contracts, Earned Value, Real Options
	Project Execution Planning and Risk	Work Break-down Structure, Levelling, Project Simulation, Network Analysis, Critical Chain Approach, Project Risk
	Project Execution and Control	Tracking, Crashing, Earned Value Analysis; <i>Simulation Game</i>
	Project Strategy	Portfolio Management, Project Leadership, Management of Change, Role of Communication, Managing Culture, Management of Project Teams
	Inventory Management	Economic Order Quantity, Continuous, Periodic Review, Newsvendor, Channel
	Forecasting	Basics, Holt-Winters Model, Artificial Intelligence/Machine Learning, Adaptive
		Impact of Improving Forecast, Qualitative

Topics		Subtopics
5	Quality Management	Quality, Dimensions of Quality, Design for Quality, Six Sigma, Design for Six Sigma, Total Quality Management, Total Productive Maintenance
		Process Control Charts, Capability
		Value Stream Mapping, Drum-Buffer-Rope, Theory of Constraints
	Lean Management	Lean, Waste, Toyota Production System, Just-in-Time (JIT) JIT Cycle, Single Minute Exchange of Die, Kaizen, Kanban, Lean Six Sigma
6	Industry 4.0	Digital Transformation, Challenges, Performance Improvement
		Levels of Industry 4.0, BlockChain
7	Operations Analytics	Correlation, Covariance, Hypothesis Testing
		Sample vs Population, Analysis of Variance, Regression, Linear Programming Problems
		Descriptive, Predictive, Prescriptive Stats, Artificial Intelligence/Machine Learning
		Revenue Management
8	Sustainable Operations	Triple Bottom Line Approach to Sustainability,
		Green Operations
		Green Quality, Socially Responsible Operations
9	Capstone Project	



Pedagogy, Programme Delivery & Schedule

Pedagogy

The course would involve concept-oriented discussion sessions delivered through industry-focused cases, simulations, and activities.



- Sessions will be delivered from IIM Nagpur studio on the BCCL technology platform to participants who would be attending from their respective places via their devices.
- Chamber consulting would be available in a phased manner to identify, analyse and intervene on a real-life problem in the field of Operations Management. These problem(s) can be from areas such as Project Management, Lean/Six Sigma or Operations/Supply Chain that the participant is either facing at his/her organisation or is interested in exploring.

Programme Delivery

- Direct-to-Device (D2D) mode via online audio/video interactive platform.

Class Schedule - Sunday 9:00 a.m. to 12:00 p.m.

Programme Duration – 11 months



Campus Immersion

- A 3-day in-campus module at IIM Nagpur towards the end of the programme

Eligibility & Admission Criteria

Who Should Attend

- Practitioners in manufacturing, project management, services or logistics sectors and people aspiring to be a part of these sectors



Eligibility Criteria

- Diploma (10+2+3) or bachelor's degree or equivalent (10+2+3 or 10+2+4) or 2 years' master's degree or equivalent from a recognised university (UGC/AICTE/DEC/AIU/State Government) in any discipline
- Minimum 2 years of work experience after completion of qualifying education
- Participants who fulfil the above criteria and are not working are also eligible to apply for the programme

Admission Criteria

- Participants will be selected based on their overall profile and credentials



Evaluation & Attendance Criteria

Evaluation Methodology

Evaluation will be based on:

- Assignments
- Online examinations

Attendance Criteria

- A minimum of 75% attendance is a prerequisite for the successful completion of this programme





Certification & Alumni Status

- Students who successfully complete the programme and fulfil all the prescribed requirements will be awarded a Certificate of Completion
- Successful candidates will also be accorded with IIM Nagpur Alumni status

Programme Directors' Profiles



Prof. Annapureddy Rama Papi Reddy

Prof. Papi Reddy is a faculty in Production and Operations area at IIM Nagpur. Before joining IIM Nagpur, he was involved in designing and developing AI/ML based solutions at the R&D division of Mphasis Ltd., known as NextLabs. Prior to his doctoral studies, he worked with HPCL in the Aviation Services Facility, Chennai.

He has taught MBA courses like Operations Management at MYRA School of Business, Mysore and Business Research Methods at Christ University, Bangalore.



Prof. Prakash Awasthy

Prof. Awasthy is a faculty in Production and Operations Management area at IIM Nagpur. He was previously engaged with MYRA School of Business, Mysore since June 2017 as an Assistant Professor. Earlier he worked with Centre for Digital Financial Inclusion as an Associate Programme Manager. He has completed FPM in Production and Operations Management from IIM-Bangalore and Master's in Electrical Engineering from IIT Kanpur. His teaching interests include

Operations Management, Supply Chain Management and Service Operations. His research interests are Sustainable and Humanitarian Operations Management, Service Operations and Market Interface, etc.

Programme Fees, Instalment Schedule & Important Dates

Programme Fees

Particulars	Amount (in ₹) (excluding GST)*
Application Fee	1,700
Processing Fee	15,000**
Tuition Fee	1,57,500
Campus Module Fee	10,500***
Student Welfare Fee	2,000
Alumni Fee	10,000
Total Fees (Excluding Application Fee)	1,80,000

* Fees Payment: The application will be filled on Times Portal and fees will be paid on IIM Nagpur payment portal. GST as per prevailing rate is applicable and will be collected additionally from the candidate/participant. Current GST rate is 18%.

** Processing Fee includes ₹1,700 towards Application Fee and ₹13,300 towards Tuition Fee. In case a participant's profile is rejected by IIM Nagpur, Tuition Fee of ₹13,300 will be refunded to the participant.

*** During campus visit, participants who want to stay extra nights at IIM Nagpur campus will have to pay additional charges directly to IIM Nagpur. This shall be subject to accommodation availability at the campus for extra nights.

Instalment Schedule

	Instalment I		Instalment II	Instalment III
Instalment Date	At the time of application	Within one week of offer roll-out date	10 th November, 2021	10 th March, 2022
Amount (in ₹)*	13,300	46,700	60,000	60,000

* GST will be additional as applicable.

Important Dates

Sessions Commencement Date	5 th September, 2021
Programme End Date	July 2022

APPLY NOW

About Indian Institute of Management Nagpur

Established in 2015, the Indian Institute of Management Nagpur (IIMN) aspires to be a leading management institution that shapes management systems, policy and governance through high-quality education, research, and industry engagement. Propelled by the pursuit of engaged scholarship, the Institute aims to create value-driven leaders and global managers with strong conceptual foundations and analytical approach, which helps them excel in diverse spheres – be it management, business, policy making, and public administration, to name a few.

IIM Nagpur's aim is to address the needs of a modern India, connecting aspirations and realities to attain benchmarks that are respected internationally. Our motto, **सत्यं च स्वाध्याय प्रवचने च**, that is, an inspired journey towards truth through individual reflection and collective discourse, propels our quest to bridge the gap between abstract knowledge and practice.

IIM Nagpur seeks to distinguish itself as an institution that promotes constant industry engagement of a 'problem-solving' nature. Executive Education, therefore, is an important thrust area for the Institute. With an array of programmes designed by a faculty body with a stellar record of research, teaching and industry engagement, the Executive Education programme at IIM Nagpur equips managers and executives with the capabilities to perform effectively in their current roles and take up greater challenges through various stages of their careers.



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About TimesTSW

The Second Wind (TSW) is an initiative by Times Professional Learning for working professionals who are keen to hone their skills to add value to their work for a more rewarding career. TSW's passion for excellence and a brief that "Executive Education Empowers" work hand-in-hand with the organisation's aim to impart knowledge to business professionals nationwide.



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About Times Group

The Times of India Group began its operations in 1838 and is India's oldest and largest media house. The Times of India is the World's largest-selling English newspaper with over 5 million copies sold daily.

The Economic Times is the World's 2nd largest English business newspaper, second only to The Wall Street Journal, with over 800,000 copies sold daily.

The Times Group is also India's most diversified media conglomerate with assets across Publishing, Radio, TV, Out of Home (OOH) and Online Media.



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