



ONLINE EXECUTIVE CERTIFICATE PROGRAM IN
**DISRUPTIVE TECHNOLOGIES
FOR PORT MANAGEMENT &
SHIPPING LOGISTICS**

DATE OF COMMENCEMENT: 9TH MARCH 2026

Offered by:

**Indian Institute of Management Mumbai (IIM Mumbai)
and
Centre of Excellence in Maritime & Shipbuilding (CEMS)**

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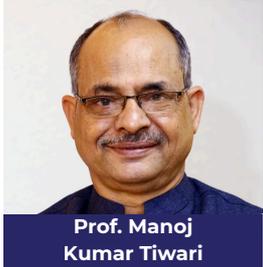


Future Starts Here >>>

Empowering Nation Through Skilling

FROM THE DIRECTOR'S DESK

Message from the Director, IIM Mumbai



It gives me great pleasure to present you to the online certification course "Disruptive Technologies for Port Management and Shipping Logistics," which IIM MUMBAI has offered in collaboration with CEMS. This course is intended to address the fast technological revolution affecting the marine and logistics industries. With the introduction of Industry 4.0 and the rise of new technologies such as artificial intelligence, machine learning, deep learning,

blockchain, digital twins, and generative AI, the global supply chain landscape is shifting toward better efficiency, sustainability, and resilience.

At IIM Mumbai, we are dedicated to improving technical and managerial excellence via creative learning. This program provides participants with a unique chance to investigate the integration of developing technologies in port operations and shipping logistics, understand their strategic implications, and apply them to real-world problems. The incorporation of practical applications, case studies, and policy insights guarantees a solid connection between theory and practice.

I want to express my heartfelt gratitude to the CEMS management, faculty, industry professionals, and participants who helped make this program a worthwhile learning experience. Let's look at how disruptive technology may transform marine logistics, streamline operations, and generate long-term development in the Indian and global economies.

I wish you an intellectually engaging and fulfilling experience.

Prof. Manoj Kumar Tiwari,
Director, IIM Mumbai



FROM THE DIRECTOR'S DESK

Message from the Director, CEMS



Mr. P. K. Mishra

I am pleased to extend my warm appreciation to IIM Mumbai and the Centre of Excellence in Maritime and Shipbuilding (CEMS) for launching the online certification course on “Disruptive Technologies for Port Management and Shipping Logistics.” This programme is both timely and forward-looking, arriving at a moment when technological transformation is accelerating across the global maritime and logistics sectors.

Ports and shipping companies today operate in an environment shaped by rapid innovation. Technologies such as Artificial Intelligence, Machine Learning, Blockchain, Digital Twins, IoT-enabled asset monitoring, autonomous systems, and advanced data analytics are no longer optional enhancements – they are strategic imperatives that influence competitiveness, resilience, and sustainability. These tools are redefining how ports operate, how supply chains are optimised, and how maritime safety and environmental performance are strengthened.

For India, which is witnessing unprecedented growth in maritime trade and port modernisation, developing skilled professionals who understand and can deploy these disruptive technologies is essential. Capacity-building programmes like this one play a crucial role in enabling industry leaders, port authorities, logistics managers, and young professionals to confidently navigate the technological shifts underway.

CEMS is committed to supporting initiatives that promote innovation, digital capability enhancement, and knowledge sharing in the maritime ecosystem. I am confident that the rich academic expertise of IIM Mumbai, combined with the practical, industry-oriented focus of CEMS, will provide participants with a holistic and impactful learning experience.

I congratulate the organisers and encourage all stakeholders to leverage this opportunity to shape a smarter, more efficient, and future-ready maritime sector.

Mr. P. K. Mishra,

Managing Director, Indian Register of Shipping (IRCLASS)

Director, Centre of Excellence in Maritime and Shipbuilding (CEMS)



ABOUT IIM MUMBAI

IIM Mumbai, formerly NITIE, established in 1963, is one of India's top B-schools, ranked 6th in NIRF 2025, offering specialized programs in Operations, Supply Chain, and Sustainability Management. Located in the financial capital, it blends academic excellence with strong industry connect and global collaborations with institutes like MIT and Kellogg. Under Prof. Manoj K. Tiwari's leadership, it serves as the national hub for Logistics and Supply Chain Management through its Centre of Excellence and the PM Gati Shakti initiative.

ABOUT CEMS

The Centre of Excellence in Maritime and Shipbuilding (CEMS) is a not-for-profit organisation established in 2017 by the Ministry of Ports, Shipping and Waterways under the Sagarmala Project. It provides knowledge and skill development training in Maritime, Infrastructure, & Manufacturing sectors. CEMS has world-class infrastructure in Visakhapatnam and Mumbai, with a focus on Industry 4.0. Its mission is to promote the advancement and implementation of industry 4.0 skills, transforming existing industries into smart factories through research and education partnerships.

ABOUT THE COURSE

This specially designed 60-hour program explores the transformative impact of disruptive technologies on logistics and supply chain management, fostering sustainable, efficient, and resilient maritime operations.

It covers technologies such as Industry 4.0, AI, blockchain, cybersecurity, digital twins, and generative AI, and it includes case studies & field visits

The program focuses on technology-driven solutions for shipping logistics and provides insights into government schemes & policy frameworks supporting maritime growth.

Ideal Participants:

The program is ideally suited for participants from the following backgrounds:

- **Professionals in Shipping, Logistics, Ports & Maritime**
- **Mechanical / Automotive / Aerospace Engineers**
- **Industrial Designers & CAD Technicians**
- **Government & Policy Professionals in Transport/Trade**
- **Research Scholars in Supply Chain & Smart Port Systems**



Prerequisites:

Essential: Knowledge of logistics/port operations

Recommended: Familiarity with digital technologies

Access to digital tools & systems during training



COURSE STRUCTURE



Total Duration: 60 Hrs (3 months) | Modules: 7 (Saturday and Sunday)
Mode of Training: Online

Course Modules	Title	Total Sessions	Hours
1	Foundations of Smart Port Logistics	6	9
2	Containerization, Automation & Terminal Efficiency	6	9
3	Specialized Cargo and Cold Chain Innovations	6	9
4	Disruptive technologies for port digitalization	6	9
5	Global Trade, Regulatory Trends, Smart Compliance & Sustainability	6	9
6	Port Digital Documentation, Cybersecurity, Compliance & IT Risk Management	6	9
7	Capstone & Industry Readiness for the Digital Port Era	4	6
Total		40	60

Field Visits Proposed: JNPA, Mumbai Port, ICDs, CFS & Warehousing Stations

COURSE FEE:

Rs. 1,50,000 + 18% GST per participant.

WHAT'S INCLUDED

The above-mentioned course fee includes the following:

- **Career-oriented Sessions**
- **Course materials**
- **Certification**
- **Learning Support**
- **Profile Building**
- **Access to the expert faculty**
- **Field Visits**
- **1 Day Campus immersion at IIM Mumbai campus**



KEY LEARNING OUTCOMES

After completion, participants will:

- ✓ Understand smart port frameworks & multimodal logistics
- ✓ Master terminal automation & congestion mitigation
- ✓ Handle specialized cargo & cold chain operations
- ✓ Apply AI, blockchain & digital twin solutions
- ✓ Navigate IMO/WTO regulations & compliance
- ✓ Build cybersecurity resilience in port operations
- ✓ Design digital port transformation strategies



Application Process



FACULTY

Expert Faculty:



Dr. Ravi Shankar

Professor (HAG) | IIT Delhi

Prof. Ravi Shankar is Professor (HAG) at the Department of Management Studies, IIT Delhi, and a Fellow of FNAE, FWAPS, and FIIE, with over 47,800 citations and an H-index of 91, making him one of the most cited scholars in Business and Management globally. With four decades of experience, over 400 publications, and 10 books, he has earned numerous national accolades and has trained over 10,000 professionals in Project Management, Business Analytics, and Supply Chain Optimization.



Prof. Ravindra Gokhale

Associate Professor | IIM Mumbai

Dr. Ravindra Gokhale is an Associate Professor at IIM Mumbai in Operations and Supply Chain Management with over 20 years of experience, including 6.5 years in the manufacturing industry. He holds a Ph.D. from IISc Bangalore and an M.Tech. in Industrial Engineering & Operations Research from IIT Bombay, with extensive expertise in teaching, research, consultancy, and executive training across manufacturing, logistics, FMCG, and healthcare sectors.



Dr. Jasashwi Mandal

Assistant Professor | IIM Mumbai

Dr. Jasashwi Mandal is an Assistant Professor in Analytics and Data Science at IIM Mumbai, with prior research experience at the Norwegian University of Science and Technology (NTNU), Norway. She holds a Ph.D. in Mathematics from IIT Kharagpur, and her research focuses on Maritime Shipping, Multi-objective Optimization, AI/ML, and Supply Chain Management, with publications in leading international journals.



Dr. Rony Mitra

Assistant Professor | IIM Mumbai

Dr. Rony Mitra is an Assistant Professor in Analytics and Data Science at IIM Mumbai, holding a Ph.D. and M.Tech. in Computer Science and Data Processing from IIT Kharagpur, where he was a department topper. His research spans Supply Chain Finance, Data Science, Operations Research, and Large Language Models, with publications in leading journals and industry collaborations on predictive analytics, supply chain optimization, and AI-driven decision systems.



Dr. Nikhil Ghag

Assistant Professor | IIM Mumbai

Dr. Nikhil Ghag is an Assistant Professor in Operations and Supply Chain Management at IIM Mumbai, with prior experience as a Business Analyst and faculty at SIOM Nashik. He holds a Ph.D. from IIM Mumbai, an M.Tech. in Industrial Automation and Robotics, and a B.E. in Mechanical Engineering, with research focusing on Logistics, Business Competitiveness, SME Sustainability, and Supply Chain Management.

FACULTY

Expert Faculty:



Prof. Anil Sathe

Seasoned Supply Chain professional | CEMS

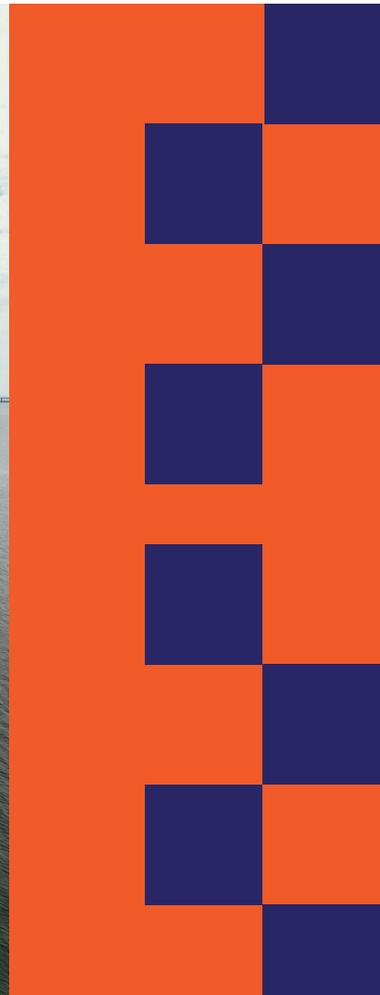
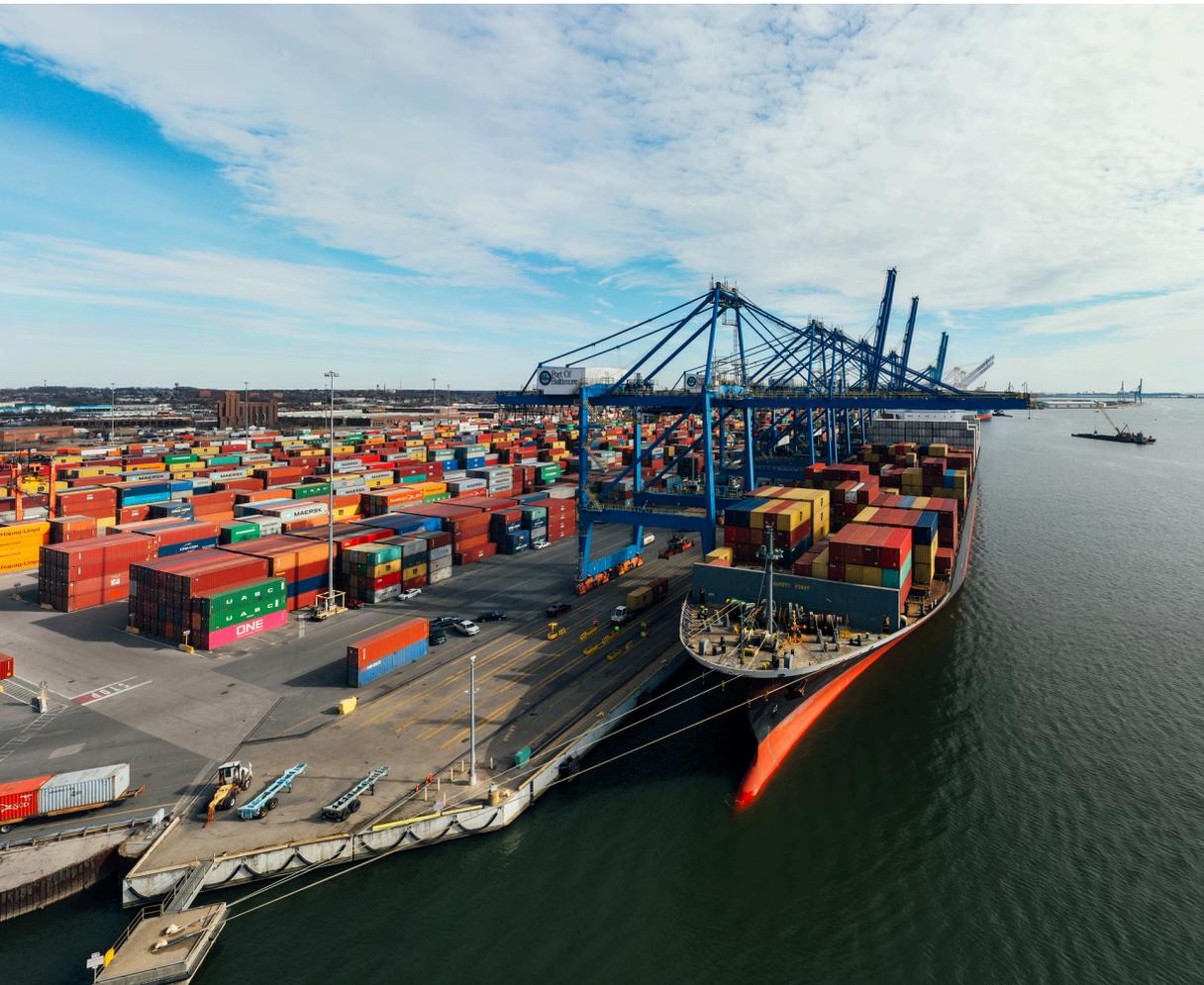
Prof. Anil Sathe is a seasoned Supply Chain professional with over three decades of leadership experience across industries including Elevator, HVAC, Retail, Chemical, and Automotive manufacturing. He holds an M.S. in Global Supply Chain Management from Indiana University, USA, and a B.Tech from IIT Mumbai, and has contributed as a corporate trainer, visiting faculty, and advisory member on logistics skill development for the Kerala government.



Prof. Praveen Koyyana

Senior Logistics Faculty | CEMS

Prof. Praveen Koyyana Senior Logistics Trainer with 8 years of industrial and academic experience in Supply Chain Management, International Trade, and Export-Import Documentation, specializing in optimizing logistics operations and ensuring global compliance. He designs impactful, hands-on training programs that enhance efficiency, foster continuous improvement, and drive professional growth.



Program Coordinators:



Prof. Padmanav Acharya
Professor at IIM Mumbai

Prof. Padmanav Acharya is a Professor at IIM Mumbai specializing in Operations and Supply Chain Management, with teaching interests in Logistics, Transportation, Manufacturing Planning, and Project Management. His research focuses on Lean Manufacturing, Reverse Logistics, and Cold Chain Management, emphasizing actionable, industry-driven solutions across sectors such as Apparel, Electronics, Automotive, Healthcare, and Agriculture.



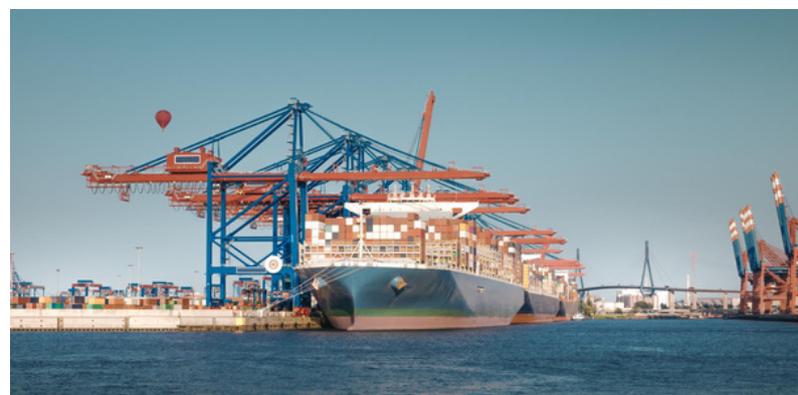
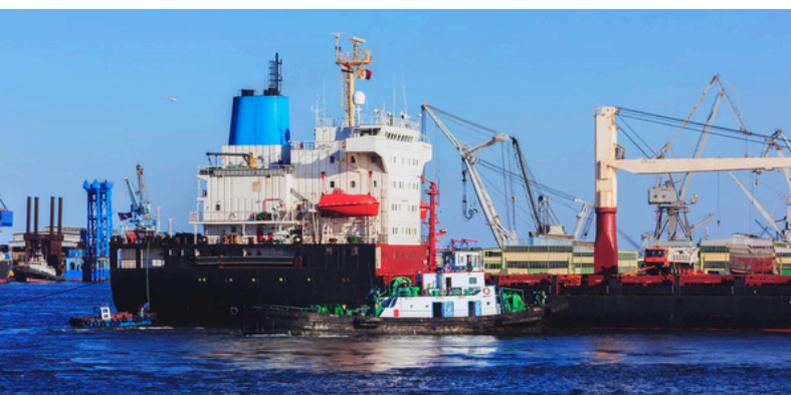
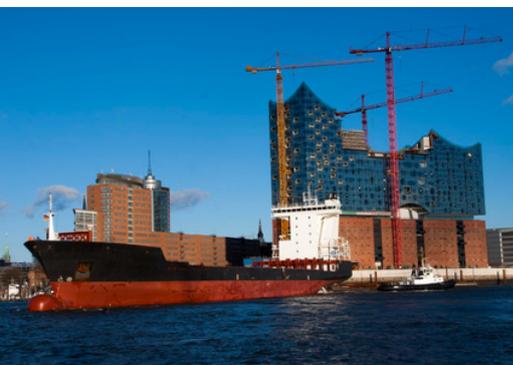
Prof. Vijaya Kumar Manupati
Associate Professor at IIM Mumbai

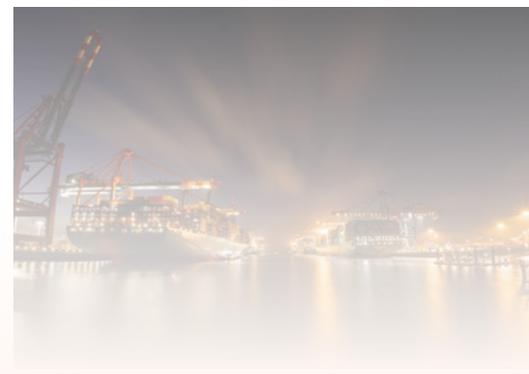
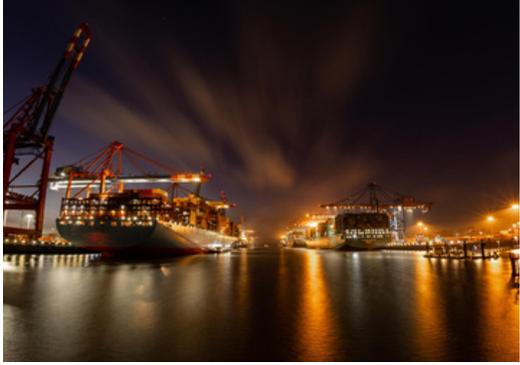
Prof. Vijaya Kumar Manupati is an Associate Professor at IIM Mumbai specializing in Operations and Supply Chain, with a Ph.D. in Industrial and Systems Engineering from IIT Kharagpur. His research spans Intelligent Manufacturing, Cyber-Physical Systems, and Sustainable Supply Chains, with 30+ journal papers, multiple books and chapters, and recognition including the Young Engineers Award from the Institute of Engineers India.



Mr. Ramesh Yadav
Regional Manager

Institution & Industry Connect at the Centre of Excellence in Maritime and Shipbuilding (CEMS), he is an MBA professional with over 14 years of experience in Skill Development, Brand Building, and Event Promotion. He leads corporate training programs and government-focused capacity-building initiatives, particularly for defence organizations, and spearheads large-scale skilling projects in collaboration with State Governments and premier institutions. His role centres on driving strategic outreach, forging impactful partnerships, and strengthening industry engagement to support CEMS' mission of developing future-ready talent.





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