



भारतीय प्रबंध संस्थान कोषिकोड
Indian Institute of Management Kozhikode
Globalizing Indian Thought

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TAKE A LEAP IN SUPPLY CHAIN MANAGEMENT & ROLE OF ANALYTICS



IIM KOZHIKODE

PRESENTS

Professional Certificate Programme in

**ADVANCED SUPPLY CHAIN
MANAGEMENT & ROLE OF ANALYTICS**

PROGRAMME OVERVIEW

The Supply chain is a critical piece of Puzzle for business success as it directly impacts both the customer satisfaction & profitability of an organisation. Recent global events like pandemic, geo-political instability (wars), chip shortage Clogged Ports, other logistics and climate change related disruptions have exposed the vulnerabilities and risks lurking conventional supply chains. It has forced companies to take a hard look at their existing business model and associated supply chain processes. Such disruptions amidst emergence of digital technologies enabled by better connectivity have forced leading organisation to relook at its value chain: from raw material sourcing to delivering to end customer. This was the testing period for the commercial, operational, financial and organisational resilience of the majority of companies across the globe, and also highlighted risks and resiliency gaps for many organisations.

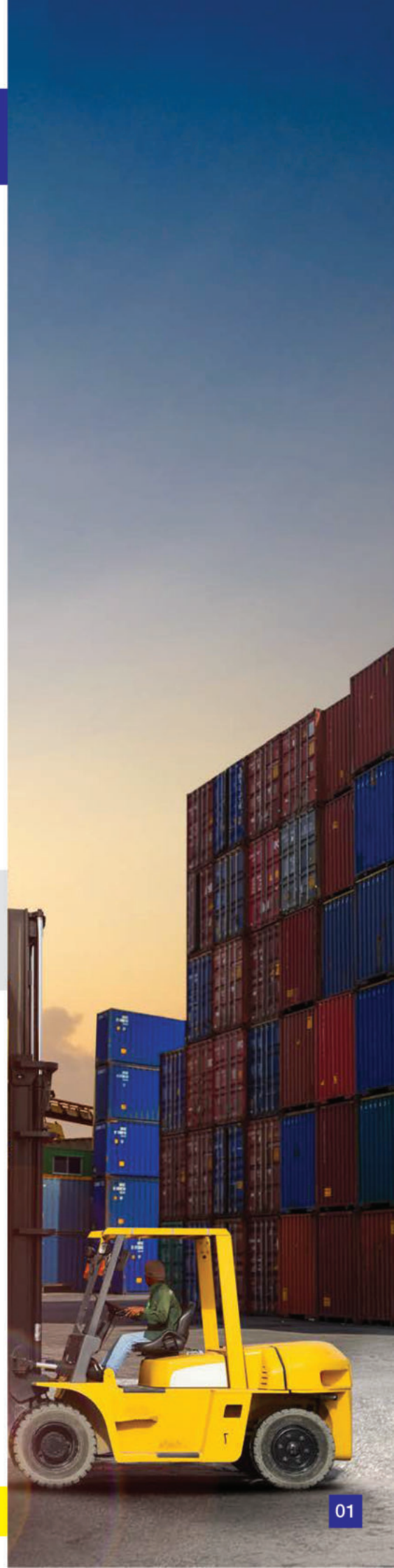
*KPMG 2022

These challenges encouraged organisations to look for opportunities provided by innovative digital technologies to leverage competitive advantage in the post pandemic world. Such technologies have demonstrated the power of interconnected Digital Supply Networks (DSNs) to enable organisations to anticipate, sense, and respond to unexpected changes proactively and minimise their impacts.

“Despite the profound shifts experienced over the past year, the future of supply chains doesn’t look all that different from how it was previously imagined, except being faster/responsive, agile and resilient”.

In the presence of these digital technologies, the supply chains can now capture and process the massive amounts of data. However, the challenge today is how companies can best use the huge amounts of data generated in their supply chain networks. A typical supply chain in 2017 accessed 50 times more data than just five years earlier. However, less than a quarter of this data was being analysed due to lack of capabilities and basic understand of underlying fundamentals of supply chain.

*Deloitte (2020)



PROGRAMME OVERVIEW

The supply chain management models based only on past demand, supply, and business cycles can lead to missing on big opportunities to put analytics to work & thus unable to provide competitive advantage. By implementing technology, tools, and other resources to collect real-time data across everything from inventory flow to shipping performance, organizations are able to make better decisions on how to manage Supply Chain while Optimising cost & operation with improved efficiency. Supply chain analytics solution offers better visualization and insightful interpretation for organizations to make sense of the raw data. The new insights help in improving Supply chain decision making, all the way from the improvement of front-line operations to strategic choices. It encompasses virtually the complete value chain: sourcing, manufacturing, distribution and logistics. Today organizations are restrained by two major challenges - lack of capabilities and vision to leverage big data and structure approach to explore, evaluate and capture big data.

This programme is designed into three categories which overlap with each other over the programme duration. It introduces to the participants the conventional supply chain process (plan, source, production, warehousing and distribution, sales, sustainability) and the challenges it has faced due to black swan events like Covid-19. In the due course, various tools and techniques in supply chain analytics (Descriptive analytics, Diagnostic supply chain analytics, Predictive analytics, Prescriptive analytics, Cognitive analytics) would be introduced. Use of these tools are expected to impact various aspects of supply chain like enhanced return on investment, better risk management, increased planning accuracy and increased operation efficiency which allows organisation to stay lean & better prepared for future uncertainties and finally, participants will be introduced with topics like the need for digital supply chain, digital transformations, supply chain sustainability etc. Impact of these upcoming aspects on business performance.

Deloitte.

COVID-19 has accelerated the adoption of Digital Supply Chains (DSC)

**McKinsey
& Company**

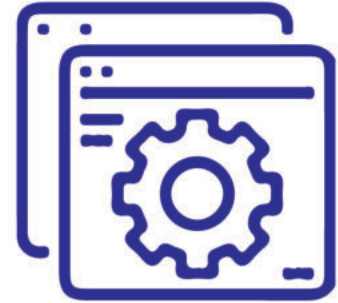
90% of leaders plan to increase the DSC talent within their organisations

KPMG

67% CEOs plan to enhance resilience by increasing investment in disruption detection/ innovation processes

PROGRAMME DETAILS

❖ Batch	: 02
❖ Mode of Delivery	: Direct to Device [D2D]
❖ Programme Duration	: 10-12 Month*
❖ Programme Schedule	: Sunday- 09:00 am to 12:15 pm
❖ Programme Fee	: INR 2,65,000/- + GST



WHAT WILL THE PROGRAMME DO FOR YOU?

The programme aims to evolve learners' mindset with the latest industry know-how. They will explore new ways to drive deep understanding and build a foundation of concepts in regards to Advanced Supply Chain Management & Role of Analytics.



Understand complexities and challenges in managing the global supply chain



Understand the importance of analytics for better decision - making in supply chain management resulting in improved financial / economic impact



Develop a digital supply chain management strategy that embeds the right technologies for your business



Lead organizational change and supply chain transformation



WHAT ARE THE PROGRAMME HIGHLIGHTS?

Acquire a robust understanding of the supply chain through immersive learning delivered by **IIM Kozhikode - Advanced Supply Chain Management & Role of Analytics** programme. Discover real-world case-study analysis and exposure to the proven pedagogy that will inspire you with a broader perspective. On successful completion of the programme, participants will be eligible for the prestigious IIM Kozhikode Executive Alumni Status. These participants will subsequently receive the alumni registration details from IIM Kozhikode.



Professional Certification from IIM Kozhikode



Executive Alumni Status from IIM Kozhikode



Gain an in-depth understanding of applications and concepts of Supply Chain



Hands-on analysis of supply chain problems and their solutions



Get insights on real-life case study analysis



Rigorous Pedagogy filled with simulations and case analysis

ELIGIBILITY

- ❖ A graduation degree from any recognised university
- ❖ Minimum 3 years of work experience
- ❖ Selections will be based on a detailed Profile of Candidate in his own words elaborating his Academic record, Profile, Designation, Salary, Roles, Responsibilities, Job Description, and a write-up on "Expectations from the Programme"

EVALUATION

The evaluation methodology is the discretion of the faculty. The methodology includes online quizzes, case analysis, class contribution, assignments, and any other component as decided by the faculty. A minimum of 75% attendance is a prerequisite for the successful completion of this programme. The participants will have to secure the minimum pass marks in the evaluation components specified by the faculty.

CERTIFICATION

“IIM Kozhikode - Advanced Supply Chain Management & Role of Analytics”

for those who successfully complete the prescribed programme of Advanced Supply Chain Management & Role of Analytics and fulfill all the academic requirements.



WHO SHOULD ATTEND THIS PROGRAMME?

Meet the supply chain management and analytics-related challenges, apply forecasting methods to improve projects strategy. Whether you are an experienced professionals or a small supply chain business owner, this programme will enhance your skills sets. Participants can easily gain expertise and advance their current learning levels.

- ❖ Participants who are at a managerial level and wants to learn the nuances of supply chain management
- ❖ Professionals in Supply Chain Management who are looking for hands-on experience
- ❖ Working professionals who are keen on understanding the execution of supply chain management in real-time



WHAT WILL YOU LEARN?

UPSCALE YOUR SKILLS SETS

HOLISTIC CURRICULUM

- ❖ Working professionals who are aspiring career in Supply Chain Management & Role of Analytics industry
 - ❖ Pedagogy equips budding supply chain managers with tools, concepts to put them on the path to operational excellence
 - ❖ Practitioners can attend online sessions that would be a combination of lectures, discussions, simulations, case analysis, and hands-on exercises
 - ❖ Course evaluation will involve assessments, quizzes, case analysis, projects and simulation
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PROGRAMME MODULES

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MODULES	SYLLABUS
Module 1	Fundamentals of SCM
	Introduction to SCM
	Supply Chain Structure
	SCM processes & decisions
Module 2	Demand Planning & Forecasting
	Introduction to Demand Forecasting & Forecasting Accuracy
	Forecasting: Time series methods and causal methods
	Demand & Planning: Matching demand & supply
Module 3	Supply Chain Modelling & Design
	Basic overview of optimisation
	Transportation Problem
	Designing Distribution Network
Module 4	Managing Inventory in Supply chain and supply coordination
	Inventory management Models: EOQ, Quantity discount, Backorders
	Single period inventory models, continuous review models
	Risk pooling in supply chain
	Bullwhip effect and how to manage it

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MODULES	SYLLABUS
Module 5	Supply chain Integration & distribution strategies
	Direct shipment, cross-docking, transshipment, etc.
	Postponement (Product and process)
	Last-mile delivery
Module 6	Logistics & Global Supply Chain Management
	Freight transportation: Selection & its impact on inventory
	Warehousing: Design, Operations heuristics, Material handling
	Customs, Duties, Tariffs, INCO terms, Rules of origin, Letter of credit, etc.
	International transportation, Trading blocks, Trade zones, Bonded warehouses
	Currency fluctuations, Exchange rate risks, Transfer pricing, Permanent establishment
Module 7	Procurement and sourcing management
	Outsourcing decision
	Sourcing Purchasing at right price
	Vendor rating
	Types of contract
	Managing Channel Partner distribution and conflicts
	Supplier relationship & partnership

PROGRAMME MODULES

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MODULES	SYLLABUS
Module 8	Fundamentals of Data Analytics
	Introduction to Data and the Power of Data
	Descriptive Statistics, Data Visualization and Advantages illustration through examples
	Summarizing Data through Measures of Central tendencies
	Measures of Dispersions and Idea of risk
	Measures of Associations
	Sampling and Inferential Statistics: Overview
	Introduction to Predictive Analytics and Regression
Module 9	Other Application of Supply Chain Analytics
	Predicting customer preferences
	Pricing analytics
	Demand Analytics - Demand forecasting
	Procurement Analytics
	Production Analytics-Production Planning and Workforce Management
	Purchase Analytics - Order Management
	Predictive maintenance of equipment
	Cognitive analytics
Module 10	Basic of Data Analytics through R or similar tools (focus on application only)
	Data analytics: Exploring the Tool

PROGRAMME MODULES

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MODULES	SYLLABUS
	Big Data analytics: Data analytics I (Statistical learning)
	Big data analytics: Data analytics II (Machine learning and applications)
	Big data analytics: Prescriptive Analytics
Module 11	Digital Supply Chain Strategy and Transformation
	Digitizing vs Digitalizing in Supply Chains
	Digital ecosystem and Omnichannel revolution
	Digital SC Transformation Capabilities
	The role of Technology and its applications to Digital Supply Chains
	Digital SC Transformation Roadmap
Module 12	Predicting and mitigating risk in supply chain
	Tools and methods to identify Supply chain risk, assess risk and management risk
	Design resilience in the supply chain
Module 13	Sustainable Supply Chain Management (SSCM)
	Concept of triple -bottom line, carbon trading, Circular Economy
	Role of cradle-to-cradle design, sourcing, packaging, logistics in SSCM

PROGRAMME FACULTY

IIM Kozhikode's esteemed faculty are Ph.D's from leading business schools. The programme faculties have valuable and relevant experience in the supply chain management and analytics field.



PROFESSOR RUPESH KUMAR PATI

PhD (IIT Roorkee) in Supply Chain Management

M.Tech (ISM, Dhanbad) in Industrial Engineering and Management
(Gold Medal)

B.Tech (OUAT (now BPUT), Bhubaneswar) in Mechanical Engineering

Professor Rupesh Pati has conducted various research in the field of Sustainable Supply Chain, Project Management and Digital Transformation.



PROGRAMME FEE STRUCTURE

Fee Structure	Total Fees (INR)
Application Fees	INR 2,000/- + GST
Programme Fee	INR 2,65,000/- + GST

Instalment Pattern	Instalment Amount (INR)
Initial Fees	INR 85,000/- + GST - 7 days from the date of the offer letter
Instalment 1	INR 60,000/- + GST
Instalment 2	INR 60,000/- + GST
Instalment 3	INR 60,000/- + GST

Easy EMI Available



CAREER ASSISTANCE

Profile Building	Resume Review	Placement Assistance	Career Enhancement Sessions
Rigorously building the candidate's profiles and resume scrutinizing with their LinkedIn profiles. Jaro Education enables personalised feedback to boost overall virtual presence.	Moving forward with carefully curated resumes reviews that ensures you are interview-ready for the workplace of tomorrow.	Get career assistance as per the profile and preferences. On an average, get 5-6 job recommendations to enhance quality employment opportunities	Bridging connectivity to link the best talent with organizations through eminent sessions from top-class industry speakers.

Top Notch Companies On Boarded For Interview



Top High Profile Hiring

- Manager
- Assistant Product Manager
- Process Coordinators/ Facilitator
- Automation QA
- Team Lead
- Supply Chain Analyst
- Logistics Analyst
- Operations Manager
- Project Manager
- Purchasing Manager
- Strategic Procurement Manager
- Supply Chain Manager
- Supply Planner
- Transportation Planner
- Demand Planning Manager

Note:

IIM Kozhikode or Jaro Education do not guarantee or promise you a job or advancement in your existing position. Career services is simply provided as a service to help you manage your career in a proactive manner. Jaro Education provides the career services described here. IIM Kozhikode is not involved in any way with the career services described above and offers no commitments.

ABOUT IIM KOZHIKODE



5th

NIRF India Rankings
2022: Management

2nd

Atal Innovation
Rankings (ARIIA) 2021

IIM Kozhikode is ranked 5th as per the latest NIRF India Rankings 2022: Management. The Institute also made its global debut for its flagship MBA (101+ globally, 7+ in Asia) and EMBA programme (101+ globally, 15+ in Asia) in the 2020/21 QS World University Rankings. It is also ranked No.2 in the CFIs (non-Technical) category in the Atal Innovation Rankings (ARIIA 2021) released recently by the Ministry of Education, Govt. of India. IIM Kozhikode is globally accredited by EQUIS (EFMD) and AMBA (UK). Since its inception, IIM Kozhikode has successfully carved its niche in management education through a judicious blend of academics and real-world practice. The Institute continually adapts to the rapid influx of changes in the Indian business landscape by providing cutting-edge Management Development Programmes with innovative pedagogy and content to impart industry-relevant knowledge and skills to its executive education participants. Last year, IIM Kozhikode trained more than 3,400 executives through a wide gamut of programmes uniquely crafted for agile minds interested in thought-provoking questions and learning centred on business transformation and growth.

ABOUT JARO EDUCATION

**“INDIA’S MOST TRUSTED
ONLINE HIGHER
EDUCATION COMPANY”**

1000+

Corporate Associations

3,00,000+

Careers Transformed

2009

Enhancing Career Since



2022

EdTech Leadership Award



2022

National Best Employer Accolade



2019

Economic Times Award



2018

ABP Education Award



2017

Modi Award

Jaro Education is India's most trusted online higher education company and a pioneer in the Executive Education space; since July 2009. The company aims to nurture entrepreneurs & working professionals from entry-level to C-Suite level in every field and industry by offering executive education programmes that cater to their requirements.

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Jaro Education's Presence

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