SYLLABUS FOR BOARD OF STUDIES ADOPTION — generated from the live catalogue record

# Supply Chain and Logistics Fundamentals

X-M3 · 3 days (configurable 1–5 days) · Management · Business & Finance · Years: 2nd, 3rd, PG

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## OVERVIEW

Students model a supply chain and optimise its cost, inventory and service trade-offs.

Supply-chain resilience is a boardroom priority; graduates who understand logistics and inventory trade-offs are in demand across manufacturing, e-commerce and retail.

## HOURS AND CREDIT POSITION

Contact hours: 24 Guided project: 6 Self-study: 0 Notional total: 30

**Credit claim: 1**
30 notional hours ÷ 30 hours per credit (NSQF track, UGC Micro-credentials Guidelines §5.3.3) = 1 credits.

## COURSE OUTCOMES

CO1. Describe the drivers of a supply-chain network (K2)
CO2. Calculate economic order quantity and safety stock (K3)
CO3. Compare logistics modes on cost and service (K4)
CO4. Analyse a cost-service trade-off in a supply chain (K4)
CO5. Produce a supply-chain improvement recommendation (K5)

## COURSE CONTENT — MODULES

Hours shown are the recommended format; module time scales proportionally when the engagement runs 1–5 days.

**Module 1 — Supply chain foundations (4h recommended)**
Theory: The network, flows, drivers
Lab: Map a supply-chain network
Output: Network map

**Module 2 — Inventory management (4h recommended)**
Theory: Economic order quantity, safety stock, service levels
Lab: Calculate inventory policy
Output: Inventory policy

**Module 3 — Logistics and transport (4h recommended)**
Theory: Modes, cost, the last mile
Lab: Compare logistics modes
Output: Mode comparison

**Module 4 — Demand and planning (4h recommended)**
Theory: Forecasting, sales-and-operations planning
Lab: Build a demand plan
Output: Demand plan

**Module 5 — Supply chain analytics (4h recommended)**
Theory: Cost-service trade-offs, metrics
Lab: Analyse a cost-service trade-off
Output: Trade-off analysis

**Module 6 — Capstone (4h recommended)**
Theory: A supply-chain analysis with recommendations
Lab: Analyse and improve a supply chain
Output: Improvement recommendation

## ASSESSMENT SCHEME (100 MARKS)

Continuous exercises — 40 marks
Case project — 40 marks
Presentation & defence — 20 marks

## CO–PO MAPPING

CO1 !' PO1 (strength 2)
Supply-chain drivers are foundational knowledge.

CO2 !’ PO3 (strength 2)
Inventory calculation is applied problem-solving.
CO3 !’ PO4 (strength 2)
Comparing modes is investigation.
CO4 !’ PO4 (strength 2)
Trade-off analysis is investigation.
CO5 !’ PO10 (strength 2)
The recommendation is professional communication.

## EVERY PARTICIPANT RECEIVES

- Certificate of completion
- Course material
- LMS access
- Interview question bank
- Mock interview & viva practice
- Optional nasscom NSQF assessment (priced per candidate on your quotation)

## FEE

[1]700 per student, incl. GST
Excludes the optional nasscom assessment where offered. Final pricing on your college's quotation.

## DESIGNED BY

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