

**DISCIPLINE SPECIFIC ELECTIVE - GLOBAL MANAGEMENT (DSE 8)**

**GLOBAL SUPPLY CHAIN MANAGEMENT**

**Credit distribution, Eligibility and Pre-requisites of the Course**

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/Practice		
Global Supply Chain Management (DSE 8)	4	3	1	0	Class XII	Basics of Marketing and Operations

**Learning Objective**

- To provide a balanced and integrated perspective of both the foundational principles and pragmatic, business-oriented functions of SCM.

**Learning Outcomes**

On successful completion of the course the learner will be able to:

- Define supply chain and its role in organisation.
- Analyse the significance of supply chain strategy in overall business.
- Explain the role of Marketing, Operations, Sourcing and Logistics in supply chain management.
- Evaluate different methods of forecasting and demand planning and maintaining inventory management.
- Analyse the importance of quality control through six-sigma and identify how it affects the sustainability in SCM.

**SYLLABUS FOR DSE 8**

**Unit 1: SCM Strategies and Systems**

**(12 Hours)**

Introduction To Global Supply Chain Management: Characteristics of a Competitive Supply Chain, Trends in SCM,; Examples from Different Industries, Services & Continents; Supply Chain Strategy: Achieving a Competitive Advantage, Building Blocks of Supply Chain Strategy, Supply Chain Strategic Design, Strategic Considerations, Productivity as a Measure of Competitiveness; Network and System Design: The Supply Chain System, Designing Supply Chain Networks. Special relevance of SCM for global operations.

**Unit 2: Operations, Sourcing And Logistics**

**(12 Hours)**

Customer-Driven Supply Chains, Delivering Value to Customers, Global channels of Distribution; International operations Management: Product Design, International Process Design, Facility Layout, Process Automation; International Sourcing: Sourcing and SCM, Measuring Sourcing Performance;

Global Logistics: Transportation, Warehousing, Third-Party Logistics (3PL) Providers. Challenges and advantages of global sourcing.

**Unit 3: Forecasting and demand planning**

**(12 Hours)**

Role of Forecasting and Demand Planning in SCM: Collaborative Forecasting and Demand Planning, Bull-whip effect. Role of Inventory Management in SCM: Basics of Inventory Management, Inventory Systems, Managing Supply Chain Inventory. Lean Systems and Six-Sigma Quality: Lean Production, Total Quality Management (TQM), Statistical Quality Control (SQC), Six Sigma Quality, The Lean Six Sigma Supply Chain. Variables affecting globally long supply chains.

**Unit 4: Sustainable Supply Chain Management**

**(9 Hours)**

Supply Chain Relationship Management: Supplier-Retailer Relationships, The Role of Trust. Global Supply Chain Management: Global Market Challenges, Global Infrastructure Design, Cost Considerations, Political and Economic issues. Sustainable Supply Chain Management: Growing trend in sustainable supply chain operations; Evaluating Sustainability in SCM, Sustainability in Practice. Role of IT in SCM: Enterprise Resource Planning (ERP), Tracking; RFID, Digitally networked planning.

**Essential/recommended Readings (latest editions of readings to be used)**

1. Sanders, N.R. (2017). Supply Chain Management: A Global Perspective. Wiley.
2. Ivanov, D., Tsipoulanidis, A., & Schönberger, J. (2021). Global Supply Chain and Operations Management. Springer.

**Suggestive Readings (latest editions of readings to be used)**

1. Mentzer, J.T., Byers, M.B., & Stank, T.P. (Eds.). (2006). Handbook of Global Supply Chain Management. Sage.
2. Blanchard, D. (2010). Supply Chain Management Best Practices. Wiley.
3. Branch, A.E. (2017). Global Supply Chain Management and International Logistics. Routledge.
4. Chopra, S. & Kalra, D.V. (2019). Supply Chain Management: Strategy, Planning and Operation. Pearson.
5. Handfield, R.B., Monczka, R.M., Giunipero, L.C. & Patterson, J.L. (2011). Sourcing and Supply Chain Management. Cengage Learning.

**Note:** Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time