

**SE871 SUPPLY CHAIN INTEGRATION AND MANAGEMENT**  
**UNIT - I**

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**9**

Building a strategic frame work – Elements of evolution of supply chain – Decision phase – process view – examples – Supply chain performance – Supply chain drivers and obstacles.

**UNIT – II** **9**

Demand forecasting in supply chain – Role of forecasting – Characteristics – Basic approach – Time series forecasting methods – Measures of forecast error – Role of aggregate planning in a supply chain – Aggregate planning using Linear Programming – Excel – Planning supply and demand in a supply chain : Managing predictable variability – Managing supply - demand – Implementing solution.

**UNIT – III** **9**

Managing Economies of scale in a supply chain – Cycle inventory – Role of cycle inventory in a supply chain – Managing Uncertainty in a supply chain – Safety inventory – Role – Estimation – Management – Determining optimal level of product availability.

**UNIT – IV** **9**

Transportation in a supply chain – Network design in a supply chain – Information Technology in a supply chain.

**UNIT – V** **9**

Co-ordinating a supply chain and the role of E-business – Financial Evaluation of supply chain Decision.

Reference :

1. Sunil Chopra, Peter Meindl, "Supply Chain Management – Strategy, Planning and Operation", Pearson Education, 2003.
2. David J. Bloomberg, Stephan Lemay, Joe. B. Hanna, "Logistics", PHI, 2002.
3. Handfield R.B, Nichols. E.L, "introduction to Supply Chain Management", PHI, 1999.
4. Shapiro, J.F, "Modelling the Supply Chain", Dubury, 2001.
5. Simchi – Levi, D., Kaminsky, P and Simchi – Levi, E, "Designing and Managing the Supply Chain – Concepts Strategies and Cases", second edition, Tata McGraw Hill, 2002.

1. Hartmat Stadler, Christoper Kilger, :Supply Chain Management and Advanced Planning Concepts, Models, Software and Case Studies”, second edition, Springler, 2002.