

BA5051 SUPPLY CHAIN CONCEPTS AND PLANNING

DETAILED SYLLABUS

UNIT- I CONCEPTS OF SUPPLY CHAIN

Service and manufacturing supply chain dynamics - Evolution of supply chain management - Multiple views and flows - Service supply chains -Manufacturing supply chains - Measures of supply chain performance - Differentiation-Bullwhip effect

UNIT - II SUPPLY CHAIN PROCESSES AND STRATEGIES

Integrated supply chains design - Customer relationship process - Order fulfilment process - Supplier relationship process - Supply chain strategies - Strategic focus - Mass customization - Lean supply chains - Outsourcing and offshoring - Virtual supply chains.

UNIT - III SUPPLY CHAIN PERFORMANCE DRIVERS AND FORECASTING

Drivers of supply chain performance - Logistics drivers (Location, inventory and transportation) -Cross functional drivers (Pricing, information and sourcing) – Forecasting introduction - Framework for a forecast system - Choosing right forecasting technique - Judgment methods (Composite Forecasts, Surveys, Delphi Method, Scenario Building, Technology Forecasting, Forecast by Analogy) - Causal methods (Regression Analysis -Linear & Non-Linear Regression, Econometrics) - Time series analysis (Autoregressive Moving Average (ARMA), Exponential Smoothing, Extrapolation, Linear Prediction, Trend Estimation, Growth Curve, Box-Jenkins Approach) – CPFR

UNIT - IV SALES AND OPERATIONS PLANNING

Introduction to Sales and operations planning - Purpose of sales and operations plans - Decision context - Sales and operations planning as a process - Overview of decision support tools

UNIT- V RESOURCE PLANNING AND SCHEDULING

Enterprise resource planning - Planning and control systems for manufacturers – Materials requirement planning - Drum – Buffer – Rope system – Scheduling - Scheduling service and manufacturing processes - Scheduling customer demand - Scheduling employees - Operations scheduling.

Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
Question Papers
Results and Many more...

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TEXT BOOKS

1. Sunil Chopra, Peter Meindl, Supply Chain Management: Strategy, Planning, and Operation, Pearson, 2010.
2. Janat Shah, Supply Chain Management, Pearson Education India, 2009
3. Supply Chain management, Chandrasekaran,N., Oxford University Publications, 2010
4. Supply Chain Management for the 21st Century by B S SAHAY. Macmillan Education, 2001.

OBJECTIVES

- To describe the various streams of the supply chain
- To describe the drivers of the supply chain
- To describe the concepts employed in the supply chain
- To explain about the strategies employed in the supply chain