

Lesson Plan

Subject : **Supply Chain Management (MEO-402A)**
Lesson plan Duration : 15 Weeks
Work load (lecture) per week : Lectures: 3 hours/Week

Lecture No	Description
1	Unit I: Introduction, definition, the objective of a supply chain
2	The importance of supply chain decisions,
3	Decision phases in a supply chain
4	Process views of a supply chain
5	Examples of supply chains.
6	Supply chain performance: Achieving strategic fit and scope:
7	Competitive and supply chain strategies
8	Achieving strategic fit, expanding strategic scope,
9	Challenges to achieving and maintaining strategic fit
10	Unit II: Supply chain drivers and metrics: Financial measures of performance,
11	Drivers of supply chain performance,
12	Framework for structuring drivers, facilities, inventory
13	Transportation, information,
14	Sourcing, pricing
15	Designing the supply chain network:
16	Designing distribution networks and applications to online sales:
17	The role of distribution in the supply chain,
18	Factors influencing distribution network design,
19	Online sales and the distribution network, distribution networks in practice

20	Design options for a distribution network
21	Unit III: Network design in the supply chain: The role of network design in the supply chain,
22	Factors influencing network design decisions,
23	Framework for network design decisions,
24	Models for facility location and capacity allocation,
25	Making network design decisions in practice
26	Designing global supply chain networks
27	The impact of globalization on supply chain networks,
28	The offshoring decision: total cost, risk management in global supply chains,
29	Discounted cash flows, evaluating network design decisions using decision trees, to onshore or offshore:
30	Evaluation of global supply chain design decisions under uncertainty, making global supply chain design decisions under uncertainty in practice
31	Unit IV: Managing economies of scale in a supply chain: Cycle inventory
32	The role of cycle inventory in a supply chain, estimating cycle inventory–related costs in practice
33	Economies of scale to exploit fixed costs, economies of scale to exploit quantity discounts
34	Short-term discounting: trade promotions
35	Managing multi-echelon cycle inventory
36	Managing uncertainty in a supply chain: Safety inventory, the role of safety inventory in a supply chain,
37	Determining the appropriate level of safety inventory, impact of supply uncertainty on safety inventory
38	Impact of aggregation on safety inventory, impact of replenishment policies on safety inventory, managing safety inventory in a multi-echelon supply chain,
39	The role of IT in inventory management,
40	Estimating and managing safety inventory in practice.