



PROGRAMME NAME: Post Graduate Diploma in Management (PGDM)

Logistics and Supply Chain Management (OM 601)

CREDIT: Full (3 credits)

SESSION DURATION: 60 Minutes

TERM: IV

YEAR: 2021

BATCH: 2020-22

FACULTY: Dr. Ranjit Roy Ghatak

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Office hours: 9: 30 a.m. - 5.30 p.m.

Course Introduction:

Till 1990s, the primary goal of any organization was to deliver the best possible customer service through coordinated management of its internal resources. Gradually, it started realizing that in a globalized economy today, managing its internal resources was not adequate to outperform others in the marketplace. Rather, it needs collaborative and mutually beneficial relationship with all channel partners to achieve superior operating performance, gain competitive advantage, and provide better value to its customers. The concept of Supply Chain Management evolved out of this necessity to efficiently integrate all channel members so that right goods are sourced and produced in right quantities and distributed to the right locations, on time, and at minimum cost.

Therefore, the supply chain strategies, concepts, and analytical tools learnt in the course can prove to be very useful to design and improve supply chain performance so that wastages are reduced, and increased value is delivered to customers.

Learning Outcome:

- LO1. To develop competence and skill sets in using SCM concepts in a variety of contexts.
- LO2. To display familiarity with supply chain concepts and how supply chain concepts can be used to improve the competitive position of the firm.
- LO3. To formulate proper supply chain strategies.
- LO4. To develop analytical tools to solve supply chain problems.
- LO5. To design supply chain networks.
- LO6. To manage risks in supply chain.

Course Pedagogy:

1. Class will be a mix of interactive lectures, case discussions, games, simulations and projects.
2. Each class will start with a presentation of relevant case by a group of students who will also cover the topic planned for that class.

Course Readings

Textbook:

Chopra, S., (2012), “Supply Chain Management: Strategy, Planning & Operation”, Pearson, Pearson, 5th Edition.

Reference Books:

- Simchi - Levi, D., Kaminsky, P., (2007) “Designing and Managing the Supply Chain”, Mc- Graw Hill, 3rd Edition.
- Shah, J., (2009) “Supply Chain Management: Text and Cases”, 1st Edition, Pearson.
- Hugos, M.H., (2011) “Essentials of Supply Chain Management,” 3rd Edition, Pearson.
- Bowesox, J.D., Closs, D.J., Cooper, M.B., (2016),” Supply Chain Logistics Management” 3rd Edition, Mc -Graw Hill.
- Jacobs,R.F., Chase, R., (2014) “Operations and Supply Chain Management “,14th Edition,Mc-Graw Hill.

Course Evaluation criteria:

Evaluation Components	Marks	LO attainment
Class participation	10	LO1
Quiz -5 Nos	25	LO1, LO2, LO3, LO4
Assignment/Presentation	25	LO1, LO2, LO3, LO4, LO5, LO6
End Term Examination	40	LO1, LO2, LO3, LO4, LO5, LO6
Total	100	

Plagiarism

We are committed to upholding the highest standards of academic integrity and honesty. Plagiarism is the use of or presentation of ideas, works that are not one’s own and which are not common knowledge, without granting credit to the originator. You may refer the already available content just for your reference and to get the basic ideas. Only 20% of such content is

acceptable, above that comes under the definition of Plagiarism which is unacceptable in IMI and will be treated seriously. All such cases will be referred to the appropriate body of the Institute for suitable disciplinary action.

Session Plan (Tentative):

Session No.	Topic	Learning Outcome	Readings from Textbook
1,2,3	Understanding the Supply Chain <ul style="list-style-type: none"> • Objective of Supply Chain • Importance of Supply Chain Decisions • Decision Phases in a Supply Chain • Process View of a Supply Chain • Examples of Supply Chains 	LO1, LO2	Chapter 1, Chapter 2
4,5	Supply Chain Performance <ul style="list-style-type: none"> • Achieving Strategic Fit • Supply Chain Drivers and Metrics • Framework for structuring Drivers 	LO 1, LO 2	Chapter 2, Chapter 3
6,7,8	Network Design for Efficient and Effective Supply Chain- <ul style="list-style-type: none"> • Factors Influencing Network Design Decisions • Models for Facility Location and Capacity Allocation Case 1: Apple Inc: Managing a Global Supply Chain	LO 5	Chapter 5 Case Reading / Discussion
9,10,11,12	Designing Global supply chain network <ul style="list-style-type: none"> • Impact of globalalization on supply networks • Risk Management in Global Supply Chains • Making Global Supply Chain Decisions Case 2: Agile Electric: Quality Issues in Global Supply Chain	LO 3, LO 5, LO 6	Chapter 6 Case Reading / Discussion
13,14,15	Aggregate Planning in Supply Chain <ul style="list-style-type: none"> • Role of Aggregate Planning in Supply Chain 	LO 4	Chapter 8

	<ul style="list-style-type: none"> • The Aggregate Planning Problem 		
16,17	Sales and Operations Planning <ul style="list-style-type: none"> • Responding to predictability variability • Managing Supply • Managing Demand 	LO 4	Chapter 9
18,19	Coordination in a Supply Chain <ul style="list-style-type: none"> • Obstacles to Coordination • Continuous Replenishment and Vendor Managed Inventories • Collaborative Planning, Forecasting and Replenishment 	LO 2, LO 3	Chapter 10
20,21,22,23	Inventory Management in Supply Chain <ul style="list-style-type: none"> • Role of Cycle Inventory • Estimating Cycle Inventory • Economies of Scale • Short Term Discounting • Managing Multi-echelon Cycle Inventory 	LO 3, LO 4	Chapter 11, Chapter 12
24	Managing Uncertainty in Supply Chain <ul style="list-style-type: none"> • Safety Inventory • Bullwhip effect • Managing Safety Inventory in Multi Echelon Supply Chain 	LO 3, LO 6	Chapter 12
25,26,27	Sourcing Decisions in Supply Chains <ul style="list-style-type: none"> • The role of Sourcing • 3PL and 4PL • Supplier Selection • Design Collaboration Case 3: Zara: Fast Fashion	LO 4	Chapter 15 Case Reading / Discussion
28	Transportation in Supply Chain	LO 2, LO 3	Chapter 14
29	Supply Chain Disruption Case 4: Nokia's Supply Chain Management	LO 3, LO 6	Case Reading / Discussion
30	Managing Supply Chain Disruption Case 5: NISSAN: Recovering Supply Chain Operations	LO 2, LO 3	Case Reading / Discussion

Academic Integrity:

Utmost care is taken as to keep class decorum, follow the exact evaluation norms, conduct fair examinations, fair and transparent evaluation of examination papers to maintain the highest academic integrity.

Other remarks:

1. Finish all your personal needs before coming to class.
2. Be in class on time, no latecomers will be entertained after the roll call.
3. Cell phones should remain switched off during the entire duration of the class.
4. No laptops are allowed inside the class unless instructed by the instructor.
5. No request will be entertained to change the class project, once finalized by the group.
6. Institute's manual laid down policies will be followed about academic integrity.