# XAVIER INSTITUTE OF MANAGEMENT, BHUBANESWAR XIM University

"If your supply chain runs without any problems, you either have a great supply chain or running very fat" ~ EverythingSupplyChain.com

Course Name	Supply Chain Management
Programme	EMBA
Batch	2023-24
Term	Term-IV
Credits	3.0
<b>Course Instructor</b>	Professor W. S. William

## **Course Introduction and Objectives**

We consume a variety of products and services on a regular basis. If we take a closer look at how these are produced and eventually delivered to you, you will realize that each step in this process is meticulously planned, executed, and controlled for ensuring a high degree of customer satisfaction. Let us take the example cornflakes. To make cornflakes available on your breakfast table numerous functions, activities, transactions and people are involved in planting, cultivating, processing and delivering it to the consumers. All these activities are integrated as a chain or a maze of connected flows through which physical products, information and fund flows back and forth all the time. Thus, supply chain involves four primary actors: supplier, manufacturer, distributor and finally consumer. The goal is to maximize value creation through effective coordination among various actors.

This course is designed to deepen the understanding of students pertaining to the factors that go into designing and sustaining excellence in supply chain. The course design leverages discussion forum, case studies, videos, interactions with industry practitioners to enhance both conceptual and practical aspects of the supply chain management. The content for this course is designed to include emerging trends in supply chain.

### **Course Content**

- a) Role of supply chain in value creation and organization's competitiveness
- b) Supply chain decision phases
- c) Drivers of supply chain performance
- d) Network design for supply chain

- e) Coordination in a supply chain
- f) Inventory decisions and service level
- g) Emerging technologies and supply chain design
- h) Strategic sourcing
- i) Role of transportation, warehousing, and logistics network in value creation
- j) Close-loop supply chain
- k) Manage uncertainty and risk in supply chain

# **Course Learning Outcomes (CLO)**

- a) CLO 1: Students will appreciate supply chain as an important business function.
- b) CLO 2: Students will identify important supply chain levers to enhance firm competitiveness and use analytical techniques to solve business problems.
- c) CLO 3: Students will exhibit voluntary cooperation and effective teamwork in a group setting.

# **Reading and References**

Book: Sunil Chopra and D V Kalra, "Supply Chain Management – Strategy, Planning, and Operation", Pearson, 7<sup>th</sup> Edition

Other materials: Lecture Notes, Selected Articles and Cases, to be shared by the instructor

# **Pedagogy and Students Workload**

The primary teaching methodology will be lecture and time to time relevant articles and/or research paper and/or cases will be discussed. In some cases, small video clippings (Introductory videos and examples from the industries) will be shown to augment the learning.

At least 1.5 hours of Pre-readings are expected from the students before every class so that meaningful class participation is possible. For the group project, each student should spend at least 10-15 hours of productive time. Overall, each student should spend at least 6 hours. per week for the course apart from the classroom delivery, to ensure better learning outcomes.

#### **Session Plan**

Session	Topic	Session Learnings	Reading Materials
1	Discussions on Course-outline, plan	• Supply chain	Textbook Ch – 1
	of study and pedagogy	perspectives: past,	Short video
	Introduction to Supply Chain	present, and future	
	Management	How the partners are	
		connected through	
		flow of information,	
		product, and fund	
		<ul> <li>What supply chain</li> </ul>	
		aims to achieve?	
		Industry 4.0 and	

		changing roles of supply chain	
		managers.	m 1 1 6
2, 3	Understanding the Supply Chain Management	<ul> <li>Understand three key supply chain decision phases and its significance</li> <li>Understand cycle, push/pull and macro processes of a supply chain</li> </ul>	Textbook Ch – 1 Key concept notes to be given by the instructor
4	Achieving Strategic Fit Supply Chain Drivers and Metrics	<ul> <li>Appreciate the importance of achieving strategic fit between supply chain strategy and competitive strategy</li> <li>Identify major drivers of supply chain</li> </ul>	Textbook Ch – 2,3 Examples from industry practices
5,6	Network Design for Supply Chain	<ul> <li>Understand role of network design in a supply chain</li> <li>Developing optimization models</li> </ul>	Textbook Ch – 5 Case studies: Bloomex ca (HBR) 1. Coolwipes (Textbook)
7	Basics of Sales and Operations Planning	<ul> <li>Understand how to manage supply and demand</li> <li>Get to know how S&amp;OP can be used to maximize profitability</li> </ul>	Textbook Ch – 9
8	The Bullwhip effect and coordination in a Supply Chain	• Learn about managerial levers that help improve coordination in a supply chain	Textbook Ch – 10 Notes on key concepts by the Instructor
9,10,11	Managing Economies of Scale in a Supply Chain – Cycle Inventory	Introduces     methodologies to     obtain optimal batch     sizes and discusses     managerial levers that     help reduce cycle     inventory without     hurting costs.	Textbook Ch – 11,12,13 Exercises and case studies

	Managing Uncertainty in a Supply Chain  – Safety Inventory  Optimal level of product availability – News Vendor problems	<ul> <li>Introduces         methodologies to         obtain safety inventory         and discusses         managerial levers that         help reduce safety         inventory without         hurting product         availability</li> <li>Identify factors         affecting the optimal         level of product         availability and use         managerial levers to         improve profitability</li> </ul>	
12	Supply Chain Logistics	strengths and Handon	ok Ch – 14  It to be given Instructor  udy
13.14	Sourcing Decision in a Supply Chain	Understand the meaning of strategic Key co	ok Ch – 15 ncepts note to ven by the tor
15	Managing Risks in Supply Chain Agile supply Chain		rticle s from
16	Emerging Technologies and Digital Supply Chain		at to be given Instructor article

		Blockchain are increasingly used in supply chain design	
17	Sustainable Supply Chain Close Loop Supply Chain	<ul> <li>Understand the meaning of sustainability in a supply chain</li> <li>Learn about cradleto-cradle supply chain design</li> </ul>	Textbook Ch – 17 Articles and blogs
18	Interactions with Industry Professionals	To be announced	
19	Group Project Presentations	Details to be announced	
20	Course Wrap up and Concluding Remarks		

## **Assessment Scheme**

Component	Weightage (%)	Assessment of Course Learning
		Outcome(s) (CLO)
Class Participation*	10%	CLO1
Online Quizzes (2 quizzes)	30%	CLO1
End-term	40%	CLO2
Group Project Presentation	20%	CLO3

Class participation will include Attendance + contributing towards group learning

## What happens when you miss a Quiz?

There will not be any make-up quiz for those who fail to appear. If any student misses a scheduled Quiz-I, her/his Quiz-I marks will be decided based on the performance of Quiz-II. If anyone misses Quiz-II, her/his marks for Quiz-II will be calculated on the basis of the performance in the end-term.

**Group Project:** Each group (2 to 3 members) will be assigned a broad topic to work on. The topic cannot be changed by the group once finalized. Slight modification may be possible after discussions with the faculty. The projects may either be a field project or a desk project. More details will be provided during the class.

## **Academic Discipline and Integrity**

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

#### **Some General Instructions:**

- 1. No request will be entertained to change the group project, once finalized by the group. Plagiarism beyond 20% found in the submission (including reproduction from books, online sources, journals or from peers) will be awarded zero marks.
- 2. Institute's manual of policies (MoP) will be followed regarding academic integrity.
- 3. Please be present for every online quiz. The quiz dates will be announced in advance and it is your responsibility to appear on the date of quiz. Request for make-up quiz will not be entertained at all.

# Mapping Course Leaning Outcomes (CLO) with the Program Learning Goals (PLG)

PLG#	<b>Program Learning</b>	Trait	Addressed by	Course
	Goal		Yes	No
PLG1		The students will demonstrate	Yes	
	Functional and	understanding of elements of all		
	Business Skills	functional areas		
PLG2		The students will use analytical	Yes	
		techniques to identify a business		
	Analytical Skills	problem, and suggest a solution		
PLG3		The students will exhibit voluntary	Yes	
	Collaboration and	cooperation and effective teamwork in		
	teamwork attributes	a group setting		
PLG4		The students will understand the ethical		No
		complexities of conducting business.		
		The students will adopt techniques in		
	Ethical	scenarios involving ethical dilemma		
	responsibility	and offer resolution		
PLG5	Communication	The students will produce reasonably		No
		good quality business documents. The		
		students will become effective and		
		confident communicators		

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