

Course Syllabus Global Supply Chain Management

March - July 2025

Term VII

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I. General Course Information

Subject:	Global Supply Chain Management		
Pre-requisite:	International Trade	Code:	00758
Precedent:	None	Semester:	2025-1
Credits:	3	Term:	VII
Weekly Hours:	4 hours	Course type:	In Person
Course Type Career	Compulsory: Economy and International Business	Course Coordinator:	Gareth Rees: grees@esan.edu.pe

II. Summary

This course explores the key issues associated with the design and management of Global Supply Chains (GSC). GSC are concerned with the efficient integration of Global suppliers, factories, warehouses and stores so that products are distributed to customers in the right quantity and at the right time. One of the primary objectives of SC management is to minimize the total supply chain cost subject to various service requirements.

This course requires the student to assess the role of the organization in a Supply Chain and the evolution into a Global Supply Chain and how to allocate resources to optimize the organization's role and performance in a Global Supply Chain. Topics include conducting an extensive review of the principles of Supply Chain, then evolving into the foundations of Global Supply Chain Management (GSCM), Optimization of the GSCM Efficiency and Global Supply Chain Redesign

III. Course Objectives

The objective of this course is to provide a strategic framework to analyze the design of the global supply chain network and to provide a context for planning and operational decisions to optimize a supply chains performance. This framework and decision support tools help to clarify global supply chain goals and identify managerial actions that improve global supply chain performance.

IV. Learning Results

At the end of the course, the students will be able to:

- Classify the roles and stages of supply chains and how these may improve supply chain network performance.
- Identify and describe different Supply Chain strategies to ensure optimum Supply Chain performance.
- Identify the need to measure and assess the performance of firms and their Supply Chains.
- Demonstrate a basic level of understanding of the SCOR model to interpret Supply Chain performance.
- Assess existing GSCM practices such as Supplier issues, Operations Issues and Distribution issues and apply tools for better decisions, while considering the range



of stakeholder needs that managers must consider to achieve optimal supply chain performance.

• Identify domestic and global best practices in supply chain management.

V. Methodology

During the course sessions will contain student presentations and discussions in multidisciplinary teams. The topics will be about theoretical aspects learned in class, where students are encouraged to use their knowledge and creativity to answer questions and solve problems with the lecturer's guidance.

Theoretical lectures will provide students with essential background knowledge that are reinforced with visual tools (videos) about relevant topics of supply chains.

The assessment is continuous and comprises the following: Four (4) quizzes on assigned academic papers, four (4) chapter quizzes on Moodle platform and two (2) practice and interpretation-based assessments. Additionally, there is one major project, which must be completed in teams of three to six students that relates to the analysis of real business supply chain situations and contexts.

Two formative assessments in this class will be completed in Learning Teams of three to five students. If you experience difficulties working with your team, you are expected to resolve them within the team, if possible, first. However, if you cannot find a resolution then promptly inform your instructor for guidance if you have concerns in this area.

VI. Evaluation

The evaluation system is comprehensive and continuous. It is subdivided as follows: Permanent evaluation (70%) and final exam (30%).

The final grade (PF) will be obtained in the following way:

PF = (0,70 x PEP) + (0,30 x EF)

Where:

PF = Final Grade (PF)
PEP = Continuous Evaluation (PEP)
EF = Final Exam (EF)

The permanent evaluation results from the weighted average of the evaluations that correspond to the assessment of the student's learning process: Quizzes Presentations / Research projects / Graded Practical work and session focused on exercises. The average of these grades provides the corresponding grade.

The weights within the permanent evaluation are described in the following table:

AVERAGE PERMANENT EVALUATION (PEP) 70%			
Evaluation Type	Description	Weight	
Moodle quizzes	4 online Moodle quizzes (2.5% each)	10%	
Theory quizzes	4 quizzes on assigned academic papers (5% each)	20%	
Graded practical	Two practical-based assessments (15% each) taken in Computer Lab	30%	
Group assignments	Group Report & Presentations (15% each)	30%	
Participation	Attendance, punctuality and participation	10%	



VII. Programmed Content

WEEK	CONTENTS	ACTIVITIES / EVALUATION
LEARNING	UNIT I: INTRODUCTION TO SUPPLY CHAINS A	AND THEIR MANAGEMENT
LEARNING	OUTCOME:	

- Classify the roles and stages of supply chains and how these may improve supply chain network performance.
- Identify and describe different Supply Chain strategies to ensure optimum Supply Chain performance.
- Identify the need to measure and assess the performance of firms and their supply chains.
- Demonstrate a basic understanding of the SCOR model to interpret supply chain performance and its optimization.

ACROSS ALL LEARNING OUTCOMES:

- Able to function effectively as an individual, as a member or leader of diverse teams.
- Recognize the need for lifelong learning and the ability to face it in the broader context of technological change.

technological change.			
	1.1) What is supply chain management1.2) Objectives of global supply chain management1.3) Global Supply chain stages and roles	Presentation: Course Methodology and Assessment Guidelines	
1° From 17 to 22 March	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 1 Págs. 1-27	Moodle Quiz N°1 Wisner et al. (2022) Ch 1. Details on UE Virtual. Group Project #1 set	
	1.4) Global Supply Chain Design & Strategy1.5) Supply Chain Integration – (Bullwhip LAB)	Theory Quiz N°1 Hoole (2005) 5 ways to simplify your supply	
2° From 24 to 29 March	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 1 Págs. 1-27	chain.pdf and Wisner Ch 13 Details on UE Virtual.	
20 maron	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 13 Págs.559-590	Activity N° 1 The Soda/Beer game Lab	
3°	1.6) Supply Chain Integration and Optimization1.7) Understanding Supply Chain's performance1.8) The SCOR Model	Theory Quiz #2: Delipinat Kocaoglu (2014) Using SCOR	
From 31 March to 5 April	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 13 Págs.559-590 Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 14 Págs.601-624	model to gain competitive advantage.pdf. and Wisner Ch 14	

LEARNING UNIT II: DEMAND FORECASTING IN THE SUPPLY CHAIN LEARNING OUTCOME:

- Assess existing GSCM practices such as Supplier issues, Operations Issues and Distribution issues and apply tools for better decisions, while considering the range of stakeholder needs that managers must consider achieving optimal supply chain performance.
- Identify domestic and global best practices in supply chain management.

4° From 7 to 12 April	 2.1) Demand forecasting 2.2) Types of forecasting approaches 2.3) Quantitative forecasting models (LAB Session) 	Activity N° 2 Quantitative Forecasting Lab-Exercises
	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6th ed. Ch 5 Págs. 173-200	Details on UE Virtual



5°	2.4) Forecast accuracy2.5) Recent developments in Forecasting	
From 14 to	Group Project #1 Presentations (2 nd Session week 5)	Group Project #1 due
19 April	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 5 Págs. 173-200	
	UNIT III: SUPPLY ISSUES	
_	OUTCOME: existing GSCM practices such as Supplier issues, Operations	Issues and Distribution
issues an	d apply tools for better decisions, while considering the range of	
_	s must consider to achieve optimal supply chain performance. omestic and global best practices in supply chain management.	
	3.1) Purchasing	Theory Quiz #3:
	3.2) Outsourcing3.3) Total Cost of Ownership	van Hoek (2001). E- supply chains – virtually
	3.4) Make or Buy decisions	non-existing and Wisner
6°	3.5) Supplier relationships	Ch 3
From 21 to 26 April	3.6) Managing risk and availability	Details on UE Virtual
20 / (piii	3.7) Supplier selection Wisner/Tan/Leong. Principles of Supply Chain Management: A	
	Balanced Approach 6th ed. Ch 2 Págs. 41-81	
	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6th ed. Ch 3 Págs. 95-119	
	3.8) Ethical sourcing	Theory Quiz #4:
7°	3.9) Sustainable sourcing	Paul, I.D., Bholeb, G.P.,
From 28	3.10) Supplier issues in Sustainable Supply Chains	& Chaudharic, J.R. A review on Green
April to 3 May	Wisner/Tan/Leong. Principles of Supply Chain Management: A	Manufacturing.pdf and
	Balanced Approach 6 th ed. Ch 4 Págs.133-159	Wisner Chap 4
		Details on UE Virtual
	UNIT IV: OPERATIONS ISSUES OUTCOME:	
	existing GSCM practices such as Supplier issues, Operations	Issues and Distribution
	and apply tools for better decisions, while considering the range of	
	s must consider to achieve optimal supply chain performance.	
Identify d	omestic and global best practices in supply chain management.	,
	4.1) Resource planning in the Supply Chain4.2) Aggregate planning in the Supply chain	Moodle Quiz N° 2: Wisner Ch 6.
8°	4.3) Basic Chase and Level strategies	Details on UE Virtual
From 5 to	4.4) Chase and Level strategies with constraints	
10 May	(Backorder example)	
	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 5 th ed. Ch 6 Págs. 183-191	
	4.5) Master Production Schedules	Graded Practical N° 1
9°	4.6) Available to Promise	Excel-based Calculation
From 12 to	Graded Practical in 2nd Session of Week 9	and Interpretation
17 May		assessment taken in a Lab
	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 5 th ed. Ch 6 Págs. 183-220	
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10° From 19 to 24 May	 4.4) Materials Requirements Planning 4.5) Bill of materials and Net requirements 4.6) Warehouse / Distribution facilities 4.7) Warehouse Centralization / Square Root Rule Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 5th ed. Ch 6 Págs. 183-220 	
11° From 26 to 31 May	 4.11) Warehouse Management Systems (Warehouse LAB) 4.12) Managing Inventories 4.13) ABC Control method 4.14) ABC Inventory Matrix 	Activity N° 3 Warehouse Management LAB simulation (FabLab)
	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 9 Págs. 401-408	Moodle Quiz N° 3 Wisner Ch 7. Details on UE Virtual.
12°	4.15) Inventory Management (ABC Inventory LAB)4.16) Economic Order Quality	Activity N° 4 ABC Inventory control LAB Simulation
From 2 to 7 June	Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6 th ed. Ch 7 Págs. 271-307	(FabLab) Group Project #2 set
13° From 9 to 14 June	 4.17) Safety Inventory 4.18) Statistical reorder point 4.19) Probabilistic Safety Stock Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6th ed. Ch 7 Págs. 271-307 	

LEARNING UNIT V DISTRIBUTION ISSUES LEARNING OUTCOME:

- Assess existing GSCM such as Supplier issues, Operations Issues and Distribution issues and apply tools for better decisions, while considering the range of stakeholder needs that managers must consider to achieve optimal supply chain performance.
- Identify domestic and global best practices in supply chain management.

13° From 9 to 14 June	 5.1) Facility location 5.2) Location factors 5.3) Location decisions Wisner/Tan/Leong. Principles of Supply Chain Management: A Balanced Approach 6th ed. Ch 11 Págs. 467-495 	Moodle Quiz N° 4 Wisner Ch 11. Details on UE Virtual.
14° From 16 to 21 June	 5.4) Transportation in the supply chain 5.5) Transportation types and attributes 5.6) Global Logistics Graded Practical in 2nd Session of Week 14 Wisner/Tan/Leong. Principles of Supply Chain Management: A 	Graded Practical N° 2 Excel-based Integrated Calculation and Interpretation assessment conducted in Lab
	Balanced Approach 6th ed. Ch 9 Págs. 381-423	
15° From 23 to 28 June	Group Project #2 Presentations Invited Speaker: "Supply Chain Management in Action" presentation by AJE Group	Group Project #2 Due: Upload presentation and report to UE Virtual on day of presentation
16° From 30 June to 5 July	FINAL EXAM	



VIII. Bibliography

Required Reading:

Selected Chapters

• Wisner, JD., Tan, K-C., & Leong, GK. (2022) **Principles of Supply Chain Management**, (6th Edition), Mason, OH: South-Western - Cengage Learning.

Complimentary Readings for Theory Quizzes:

- Hoole, R. (2005). Five ways to simplify your supply chain. Supply Chain Management: An International Journal (10)1, 3-6, https://doi.org/10.1108/13598540510578306
- Van Hoek, R. (2001). E-supply chains virtually non-existing, Supply Chain Management: An International Journal (6)1, 21-28, https://doi.org/10.1108/13598540110694653
- Delipinar, G. E., & Kocaoglu, B. (2016). Using SCOR model to gain competitive advantage: A literature review. *Procedia-Social and Behavioral Sciences* 229, 398-406. http://creativecommons.org/licenses/by-nc-nd/4.0/
- Paul, I.D., Bholeb, G.P., & Chaudharic, J.R. A review on Green Manufacturing: It's important, methodology and its application. *Procedia Materials Science* 6, 1644 1649. https://doi.org/10.1016/j.mspro.2014.07.149

Research Ethics:

PLEASE NOTE:

While you may use and cite non-academic resources such as Wikipedia when working on assignments, you should not rely on them exclusively. Most of your theory-based sources should be peer-reviewed academic journals or chapter readings. Further, remember that you are responsible for the accuracy of any facts you present in your assignments and therefore should confirm the information you find from non-academic sources through further verification.

The use of AI for producing assignments will be verified through the Turnitin portal. This portal detects AI production and if AI work is detected at high levels, the submission will come under greater scrutiny. Use good AI ethics by declaring the use of AI in your projects by using an AI declaration stating how AI supported the production of your assignment, e.g., for basic research, finding sources, outlining or formatting and translation.

DO NOT rely on AI to provide your answers and reproduce these as your work.

IX. Lab Support

There are a number of Laboratory-Practical sessions for the course:

- A Bullwhip effect online simulation conducted in a computer lab,
- Quantitative forecasting models using MSExcel conducted in a computer lab.
- There are 2 Graded Practical Assessments scheduled to be taken in a computer lab in weeks 9 and Week 14.
- Warehouse management and Inventory control simulations in the FabLab Warehouse LAB in weeks 11 and 12.

X. Instructors

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