



Course Specification

— (Postgraduate)

Course Title: MANAGEMENT TECHNIQUES FOR SUPPLY CHAINS

Course Code: SCM 513

Program: EXECUTIVE MASTER IN SUPPLY CHAIN MANAGEMENT

Department: MANAGEMENT

College: COLLEGE OF BUSINESS

Institution: AL YAMAMAH UNIVERSITY

Version: 1

Last Revision Date: 18/03/2025



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A. General information about the course:

1. Course Identification:

1. Credit hours: 3			
(3, 0, 0)			
2. Course type			
A.	<input checked="" type="checkbox"/> University	<input type="checkbox"/> College	<input type="checkbox"/> Department <input type="checkbox"/> Track
B.	<input checked="" type="checkbox"/> Required		<input type="checkbox"/> Elective
3. Level/year at which this course is offered: (Level 1/1st year)			
4. Course general Description:			
This course is designed to study the strategic role of a supply chain, the key strategic drivers of supply chain performance and analytic methodologies for supply chain analysis.			
5. Pre-requirements for this course (if any):			
Not Applicable			
6. Pre-requirements for this course (if any):			
Not Applicable			
7. Course Main Objective(s):			
1. Learn the strategic importance of good supply chain design, planning, and operation for every firm.			
2. Identify facilities, inventory, transportation, information, sourcing, and pricing as the key drivers of supply chain performance.			
3. Use knowledge of analytic methodologies for supply chain analysis.			

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3 hrs. per week	75%
2	Distance-Learning	0 hrs. per week	0%
3	E-learning	1 hrs. per week	25%



3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	3
2.	Group Case studies	1
3.	Field assignments	0
4.	Others (Seminars)	1
Total (per week)		5

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Acquire knowledge related to strategic importance of good supply chain design, planning, and operation for every firm	CLO1 Knowledge and understanding (K1)	Student-Centric: Discussion, Analysis, Abstraction, and Seminars	Mid-terms, Quizzes, Presentations and Final exam
2.0	Skills			
2.1	Apply principles how to use facilities, inventory, transportation, information, sourcing, and pricing as the key drivers of supply chain performance	CLO2 Cognitive Skill (S1)	Student-Centric: Discussion, Analysis, Abstraction, and Seminars	Mid-terms, Quizzes, Presentations and Final exam
2.2	Explain role of analytic methodologies for supply chain analysis and management	CLO3 Cognitive Skills (S2)	Student-Centric: Discussion, Analysis, Abstraction, and Seminars	Presentations and Group-work Project
3.0	Values, autonomy, and responsibility			

C. Course Content:

No	List of Topics	Contact Hours
1	Topic 1: Planning and demand-supply balancing	06
2	Topic 2: Scenario planning and segmentation-based planning	09
3	Topic 3: Transition from S&OP to IBP	06
4	Topic 4: Demand forecasting models	06
5	Topic 5: Inventory optimization models	06





6	Topic 6: Planning and managing multi-echelon inventory systems	06
7	Topic 7: Developing JIT strategies in supply chains	06
Total		45

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	Every week	20%
2.	Mid-terms	7th Week	20%
3.	Presentations/Group work/Case studies	13th Week onwards	20%
4.	Final exam	15th week	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities:

1. References and Learning Resources:

Essential References	Supply Chain Management: Strategy, Planning, and Operation, 8th edition Published by Pearson (2025) Sunil Chopra https://www.pearson.com/en-us/subject-catalog/p/supply-chain-management-strategy-planning-and-operation/P200000012829/9780135350294
Supportive References	Handbook of Ripple Effects in the Supply Chain (International Series in Operations Research & Management Science, 276) 1st ed. 2019 Edition by Dmitry Ivanov (Editor), Alexandre Dolgui (Editor), Boris Sokolov (Editor) Part of: International Series in Operations Research & Management Science (323 books) Second Edition 2025
Electronic Materials	https://www.worldscientific.com/worldscibooks/10.1142/6273#t=aboutBook
Other Learning Materials	<ul style="list-style-type: none"> https://www.ingentaconnect.com/content/mcb/ijlm/1997/00000008/00000002;jsessionid=5g6j1kie8e8.x-ic-live-01

2. Educational and Research Facilities and Equipment Required:

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms
Technology equipment (Projector, smart board, software)	Projector, smart board, software
Other equipment (Depending on the nature of the specialty)	To be requested as per need

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect method (Course evaluation survey)



Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of students assessment	Program Leaders, Peer Reviewer	Direct and Indirect method (Course results and survey)
Quality of learning resources	Faculty and Students	Indirect method (Resources evaluation survey)
The extent to which CLOs have been achieved	Faculty and Students	Direct method (Course results) Indirect method(Course evaluation survey)
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

