



Course Specification

— (Postgraduate)

Course Title: SUPPLY CHAIN PERFORMANCE MANAGEMENT

Course Code: SCM 531

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, 1, 0)

2. Course type

A. University College Department Track

B. Required Elective

3. Level/year at which this course is offered: (Level 3/2nd year)

4. Course general Description:

This course provides an in-depth understanding of performance management in supply chains, focusing on key performance indicators (KPIs), analytics, and optimization strategies. It explores tools, frameworks, and best practices for assessing and improving supply chain efficiency, resilience, and sustainability. The course integrates case studies and real-world applications to enhance decision-making skills for supply chain professionals.

5. Pre-requirements for this course (if any):

SCM 521 (Supply Chain Engineering)

6. Pre-requirements for this course (if any):

Not Applicable

7. Course Main Objective(s):

The course aims at helping students develop the ability to choose and utilize the correct set of performance and financial metrics for varying supply chain decision-making situations. Students learn how to leverage key supply chain decision variables to impact performance and financial metrics. Students also learn to apply appropriate measurement methodologies for supply chains conduct thorough analyses to evaluate and optimize supply chain decisions.

Upon successful completion of this course, students will be able to:

1. Understand the principles of supply chain performance management, and explore performance measurement frameworks and methodologies.
2. Identify and analyze essential supply chain KPIs for efficiency, cost, and sustainability.
3. Apply benchmarking, and evaluate supply chain performance using quantitative models.
4. Apply sustainability and corporate social responsibility (CSR) metrics, and integrate sustainability practices with performance management.
5. Optimize supply chain efficiency through data-driven strategies, and identify supply chain's improvement opportunities.



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.	Tutorials	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 covering supply chain performance and metrics.	CLO1 Knowledge and understanding (K2)	Student-Centric: Discussion, Analysis, Abstraction, and Seminars	Mid-terms, Quizzes, and Final exam
2.0	Skills			
2.1	Apply knowledge and skills in developing operational plans based on supply chain KPIs	CLO2 Cognitive Skill (S2)	Student-Centric: Discussion, Data Analysis, and Problem solving.	Mid-terms, Quizzes, and Final exam
2.2	Process data quantitatively to measure performance of supply chains	CLO3 Communication and ICT Skills (S3)	Student-Centric: Discussion, Data Analysis, and Problem solving.	Mid-terms, Quizzes, and Final exam
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate integrity and professional academic values when dealing with supply chain data	CLO4 Values and Ethics (V1)	Student-Centric: Discussion, Data and Seminars.	Quizzes, and Group-work Project





C. Course Content:

No	List of Topics	Contact Hours
1	Topic 1: Introduction to supply chain KPIs and benchmarking	03
2	Topic 2: ESG performance metrics in SCM	09
3	Topic 3: Supply chain financing mechanisms	06
4	Topic 4: Working capital optimization in supply chains	06
5	Topic 5: Cost-to-serve analysis in supply chains	09
6	Topic 6: Frameworks for managing supply chain financial performance	06
7	Topic 7: Case Studies on supply chain metrics and financial performance within the KSA	06
Total		45

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	4 Quizzes after Weeks 3, 6, 9 and 12	20%
2.	Mid-terms	8th Week	20%
3.	Presentations/Group Project/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	<p>Lora M. Cecere (2015). <i>Supply Chain Metrics that Matter</i>. Wiley Inc. ISBN: 978-1118858110 https://www.wiley.com/en-ae/Supply+Chain+Metrics+that+Matter-p-9781118858110</p> <p>Cokins, G., Pohlen, T. and Klammer, T. (2021). <i>Supply Chain Costing and Performance Management</i>. Wiley Inc. ISBN: 9781119793632 https://www.wiley.com/en-us/Supply+Chain+Costing+and+Performance+Management%2C+2nd+Edition-p-9781119793632</p>
Supportive References	<p>Bolstorff, P. & Rosenbaum, R. (2007). <i>Supply Chain Excellence: A Handbook for Dramatic Improvement Using the SCOR Model</i>. O'Reilly Inc. https://www.oreilly.com/library/view/supply-chain-excellence/9780814409268/</p>
Electronic Materials	Related research papers and case studies.
Other Learning	Industry Reports





Materials	<p>1. McKinsey & Company (2024). <i>Digital transformation: Raising supply-chain performance to new levels</i> https://www.mckinsey.com/capabilities/operations/our-insights/digital-transformation-raising-supply-chain-performance-to-new-levels</p> <p>2. United Nations (2024). <i>Sustainable Development Goals and Supply Chain Metrics.</i> https://unstats.un.org/sdgs/report/2024/</p>
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2. Educational and Research Facilities and Equipment Required:

Items	Resources
<p style="text-align: center;">Facilities</p> <p>(Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)</p>	Classrooms
<p style="text-align: center;">Technology equipment</p> <p>(Projector, smart board, software)</p>	Projector, smart board, software
<p style="text-align: center;">Other equipment</p> <p>(Depending on the nature of the specialty)</p>	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)
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	

