

University of Jordan
Jordan University Business School (JUBS)

Course Syllabus

1. Department Name:	Business Management				
2. Program Name:	Master of Quality Management				
3. Program Code					
4. Course Code and Title:	1601782, Supply Chain Management				
5. Course credits:	3				
6. Pre-requisites:	-				
7. Course Instructor/ Coordinator Name and Email	Dr. Ayman Abdallah				
	a.abdallah@ju.edu.jo				
8. Course web-page:					
9. Academic year:	2016/2017				
10. Semester:	First	x	Second	1st Summer	2nd Summer
11. Textbook(s) Simchi-Levi, Kaminsky, and Simchi-Levi, "Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies, 3 rd ed., 2008, McGraw-Hill.					
12. References: 1- Jespersen, Skjott-Larssen, "Supply Chain Management: Theory and Practice", 2005, Copenhagen Business School Press 2- Chopra, Meindl, "Supply Chain Management: Strategy, Planning and Operation", 2008, Prentice Hall					
13. Other resources used: Make good use of library resources such as journals and research papers in addition to internet resources.					
14. Course description The course introduces the concept of Supply Chains (SC), and explores the key issues associated with the design and management of industrial supply chains. The course will therefore consider the efficient integration of suppliers, manufacturers, warehouses and stores to maximize the speed and quality of product delivery, flexibility, and service levels.					

15. Course Intended Learning Outcomes:										
PILOs										
a) Apply critical, analytical, and systems thinking skills										
b) Apply quantitative and qualitative skills related to operations management, project management, and supply chain management.										
c) Apply quality management systems standards and statistical quality tools to diagnose and amend mistakes										
d) Apply scientific research and statistical analysis skills										
e) Utilize strategic planning and analysis skills and optimal utilization of human resources skills through human resource management and organizational behavior										
<i>Mapping to PILOs</i>										
CILOs <i>(Preferred not to exceed 12 CILOs)</i>	a	b	c	d	e					
1. Define the supply chain	x	x								

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16. <u>Course evaluation:</u> (Formative and summative assessment methods are expected)				
Assessment Type	Details/ Explanation of Assessment in relation to CILOs	Number	Weight	Date(s)
Quizzes				
Midterms	1 +2 +3 +4	1	30 %	23/03/2017
Assignments				
Projects/Case Studies	1 +3 +4 +5 +6 +7 +8 +10	1	30%	To be submitted before 27/4/2017
Final	All CILOs are included	1	40%	11/05/2017
Total			100%	

17. <u>Description of Topics Covered</u>(The description should be from the textbook used)	
Topic Title (e.g. chapter title)	Description
Chapter 1. Introduction to supply chain management	This chapter includes defining SCM, discussing the development chain and its effect on the existing SC, the role of global optimization in making SCM difficult, uncertainty and risk in SCM, evolution of SCM, complexity of SCM, and key Issues in SCM.
Chapter 2. Inventory Management	This chapter includes explaining and using the EOQ model for independent inventory demand, computing reorder point and safety stock, applying the production order quantity model, explaining and use the quantity discount model.
Chapter 4. Supply contracts	This chapter includes supply contracts for strategic components including contracts for make-to-stock supply chain, contracts for make-to-order supply chain, contracts with asymmetric information. It also includes contracts for nonstrategic components.
Chapter 5. The value of information	This chapter includes the bullwhip effect, information sharing & incentives, information and supply chain trade-offs, centralized and decentralized decision making and performance impacts, information for the coordination of systems, lead-time reduction, information and supply chain trade-offs.
Chapter 6. Supply chain integration	This chapter discusses push, pull, push-pull supply chains, the impact of lead time and demand uncertainty on selecting the appropriate SC strategy, and the impact of internet on SC strategies.
Chapter 7. Distribution strategies	This chapter includes direct shipment distribution strategies, intermediate inventory storage point strategies, including traditional warehousing, cross-docking, inventory pooling, transshipment, and discusses ways to select the appropriate strategy.
Chapter 8. Strategic alliances	This chapter includes the discussion of a framework for strategic alliances, third party logistics including advantages and disadvantages of 3PL, 3PL issues and requirements and implementation issues, retailer-supplier partnership including types and requirements of RSP, and distribution

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	integration including types and issues of DI.
Chapter 9. Procurement and outsourcing strategies	This chapter includes outsourcing benefits and risks, framework for buy/make decisions, procurement strategies, and e-procurement.
Distributed material. Material requirement planning	This chapter discusses dependent demand, master production schedule, bills of materials, MRP structure, gross material requirements plan, and net material requirements plan.
Chapter 10. Global Logistics and Risk Management	This chapter discusses international supply chain management, forces toward globalization, global risks, and mapping global risks.

18. Course Weekly Breakdown:

Week	Date	Topics covered	CILOs	Teaching Method	Assessment
1	2/2/2017	Ch. 1: Defining SCM, discussing the development chain and its effect on the existing SC, the role of global optimization in making SCM difficult, uncertainty and risk in SCM, evolution of SCM, complexity of SCM, and key Issues in SCM.	1	-Lecturing -Discussion	-Follow up questions
2	9/2/2017	Ch. 2: The EOQ model for independent inventory demand, reorder point and safety stock, applying the production order quantity model. explaining and use the quantity discount model, the quantity discount model.	2	-Lecturing -Discussion -Problem solving exercises	-Follow up questions
3	16/2/2017	Ch. 2: Production order quantity model (additional examples). explaining and use the quantity discount model, the quantity discount model.	2	-Lecturing -Discussion -Problem solving exercises	-Follow up questions -
4	23/2/2017	Ch. 4: Supply contracts for strategic components including contracts for make-to-stock supply chain. Supply contracts for non strategic components.	3	-Lecturing -Discussion	-Follow up questions
5	2/3/2017	Ch. 5: The bullwhip effect, factors that contribute to the bullwhip effect, and strategies for coping with the bullwhip effect. Information sharing & incentives, information and supply chain trade-offs including the lot-size-inventory trade-off, inventory-transportation cost trade-off, lead time-transportation trade-off, product variety-inventory trade-off, and cost-customer service trade-off.	4	-Lecturing -Discussion -Case study	-Case study discussion

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6	9/3/2017	Ch. 6: Push, pull, push-pull supply chains. The impact of lead time and demand uncertainty on selecting the appropriate SC strategy, and the impact of internet on SC strategies.	5	-Lecturing -Discussion -case study	-Follow up questions -case study discussion
7	16/3/2017	Ch. 7: Direct shipment distribution strategies, intermediate inventory storage point strategies, including traditional warehousing, cross-docking strategy, inventory pooling, and transshipment, issues in to selecting the appropriate strategy.	6	-Lecturing -Discussion	-Follow up questions
8	23/3/2017	Midterm exam	1 +2 +3 4		
9	30/3/2017	Ch. 8: Framework for strategic alliances, third party logistics including advantages and disadvantages of 3PL. 3PL issues and requirements and implementation issues, retailer-supplier partnership including types and requirements of RSP, and distribution integration including types and issues of DI.	7	-Lecturing -Discussion	-Follow up questions
10	6/4/2017	Ch. 9: Outsourcing, outsourcing benefits and risks. Framework for buy/make decisions, procurement strategies, and e-procurement.	8	-Lecturing -Discussion	-Follow up questions
11	13/4/2017	Distributed material: Material requirements planning: dependent demand, master production schedule, bills of materials, MRP structure, gross material requirements plan, and net material requirements plan.	9	-Lecturing -Discussion -Problem solving	-Follow up questions
12	20/4/2017	Ch. 10: Global logistics and risk management: international supply chain management, forces toward globalization, global risks, and mapping global risks.	10	-Lecturing -Discussion	-Follow up questions
13	27/4/2017	Project presentations and discussion	All	-Presentation by project members	-Project quality -Project contribution
14	4/5/2017	Project presentations and discussion	All	-Presentation by project members	-Project quality -Project

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					contribution
15	11/5/2017 Final exam	Final exam	All		

19. <u>Others:</u>	
	Description
Attendance policies:	Students are not allowed to miss more than 15% of the classes during the semester. Failing to meet this requirement will be dealt with according to the university disciplinary rules.
Absences from exams and handing in assignments on time:	Assignments should be submitted on time. Make up exams will be held for those students having permission from the deputy dean for students' affairs.
Health and safety procedures:	
Honesty policy regarding cheating, plagiarism, misbehavior:	Cheating and plagiarism will be dealt with according to the university disciplinary rules.

Course Coordinator:	Dr. Ayman Abdallah	
Head of Department:	Dr. Taghrid Suifan	
Head of curriculum committee/ School Level:		
Dean:		
Approved by the Program Coordinator/ Head of the Department on:		

<u>Copy to:</u>
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<input type="checkbox"/> Assistant dean for Development and Quality Assurance
<input type="checkbox"/> Course Portfolio