



## Course Specification

**Course Name:** Logistics Management

**Course Code:** DS425

### I. Basic Course Information

Major or minor element of program: Major

Department offering the course: [Operations Research and Decision Support Department]

Academic level: 400 Level

Semester in which course is offered: First (fall) Semester

Course pre-requisite(s): DS122 Fundamentals of Management

Credit Hours: 3

Contact Hours Through:

Lecture	Tutorial *	Practical *	Total
2.5	1.5	0.0	4.0

\* 1.5 hours for **either** Tutorial or Practical

Approval date of course specification: September 2014

### II. Overall Aims of Course

Surveying the fundamental analytic tools, approaches, and techniques which are useful in the design and operation of logistics systems and integrated supply chains.

### III. Program ILOs covered by course

Program Intended Learning Outcomes (By Code)			
Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
K16,K18,K21	I12,I13	P12,P16	G1,G6,G9



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### IV. Intended Learning Outcomes of Course (ILOs)

#### a. Knowledge and Understanding

- K.1 Know the key issues in logistical and supply chain management.
- K.2 Explain the importance of using total supply chain costs in all analysis.
- K.3 Illustrate the analytic model based approach for solving logistics and supply chain problems.

#### b. Intellectual/Cognitive Skills

- I.1 Explain techniques for measuring and managing supply chain uncertainty.
- I.2 Distinguish different solution approaches for supply chain problems.

#### c. Practical/Professional Skills

- P.1 Select segmentation and a portfolio of solutions, rather than a single approach, for real-world logistics problems.
- P.2 Reengineer the supply chain using information technologies.

#### d. General and Transferable Skills

- G.1 Investigate real-world logistics problems through different resources.
- G.2 Improve his/her communication skills through the use of various team and individual assignments.
- G.3 Acquire problem solving skills.

### V. Course Matrix Contents

	Main Topics / Chapters	Duration (Weeks)	Course ILOs Covered by Topic (By ILO Code)			
			K & U	I.S.	P.S.	G.S.
1-	Introduction to the supply chain	1	K1			
2-	Logistics network design	2	K1,K3		P1	
3-	Demand forecasting	2	K3		P2	
4-	Inventory management	2	K2		P2	
5-	Transportation in the supply chain	2	K1,K3	I1		All
6-	Reengineering the supply chain	2	K2	I1,I2		All
7-	Distribution strategy	2	K1	I1,I2		
	<b>Net Teaching Weeks</b>	<b>13</b>				



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VI. Course Weekly Detailed Topics / hours / ILOs

Week No.	Sub-Topics	Total Hours	Contact Hours	
			Theoretical Hours	Practical Hours *
1	Introduction to the supply chain	2.5	2.5	
2	Logistics network design	4	2.5	3
3	Logistics network design	4	2.5	3
4	Demand forecasting	4	2.5	3
5	Demand forecasting	4	2.5	3
6	Inventory management	4	2.5	3
7	<b>Midterm Exam</b>			
8	Inventory management	4	2.5	3
9	Transportation in the supply chain	4	2.5	3
10	Transportation in the supply chain	4	2.5	3
11	Reengineering the supply chain	4	2.5	3
12	Reengineering the supply chain	4	2.5	3
13	Distribution strategy	4	2.5	3
14	Distribution strategy	4	2.5	3
15	<b>Final Exam</b>			
<b>Total Teaching Hours</b>		<b>51</b>	<b>33</b>	<b>18</b>

\* No Practical/Tutorial during the first week of the semester

VII. Teaching and Learning Methods

Teaching/Learning Method	Selected Method	Course ILOs Covered by Method (By ILO Code)			
		K & U	Intellectual Skills	Professional Skills	General Skills
Lectures & Seminars	✓	K1,K2,K3	I1,I2	P1,P2	
Tutorials					
Computer lab Sessions	✓			P1,P2	All
Practical lab Work					
Reading Materials					
Web-site Searches					
Research & Reporting					
Problem Solving / Problem-based Learning					
Projects					
Independent Work					
Group Work					
Case Studies					
Presentations					
Simulation Analysis	✓		I1,I2		All
Others (Specify):					



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VIII. Methods, Schedule and Grade Distribution

Assessment Method	Selected Method	Course ILOs Covered by Method (By ILO Code)				Assessment Weight / Percentage	Week No.
		K & U	I.S.	P.S.	G.S.		
Midterm Exam	✓	K1,K2,K3	I1,I2	P1,P2		20%	7
Final Exam	✓	K1,K2,K3	I1,I2	P1,P2		60%	15
Quizzes							
Course Work	✓	K1,K2,K3	I1,I2	P1,P2	All	10%	10
Report Writing							
Case Study Analysis							
Oral Presentations							
Practical							
Group Project	✓		I1,I2		All	10%	12
Individual Project							
Others (Specify):							

IX. List of References

<b>Essential Text Books</b>	<ul style="list-style-type: none"> <li>Silver E, David P, and Peterson R. Inventory Management and Production Planning and Scheduling. 3rd ed. New York, NY: John Wiley &amp; Sons, 1998. ISBN: 9780471119470.</li> </ul>
<b>Course notes</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Recommended books</b>	<ul style="list-style-type: none"> <li>Nahmias, Steven. Production and Operations Analysis. 5th ed. New York, NY: McGraw-Hill, 2004. ISBN: 9780071238373.</li> <li>Ballou, Ronald. Business Logistics Management. 5th ed. Upper Saddle River, NJ: Prentice Hall, 2003. ISBN: 9780130661845.</li> <li>Chopra, Sunil, and Peter Meindl. Supply Chain Management. 3rd ed. Upper Saddle River, NJ: Prentice Hall, 2006.</li> </ul>
<b>Periodicals, Web sites, etc ...</b>	<ul style="list-style-type: none"> <li>None</li> </ul>

X. Facilities required for teaching and learning

<p>List the facilities required</p> <ul style="list-style-type: none"> <li>Computer aided data show</li> <li>Computers labs</li> <li>White boards</li> </ul>
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**Course coordinator:** Prof. Mohamed Mostafa Saleh

**Head of Department:** [Prof. Mohamed Mostafa Saleh]

**Date:** September 2014