



Course Description: Supply Chain Management

1. Basic Information:

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| Course Name | Supply Chain Management |
| Course ID | BMN305 |
| Contact Hours (Registered Sessions) | 18 |
| Contact Hours (Synchronized Sessions) | 18 |
| Mid Term Exam | - |
| Exam | 75 min |
| Registered Sessions Work Load | 18 |
| Synchronized Session Work Load | 18 |
| Credit Hours | 4 |

2. Pre-Requisites:

| Course | ID |
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| Fundamentals of Management | BMN101 |
| Fundamentals of Financial Management | BFB201 |
| Cost Analysis | BAC202 |

3. Course General Objectives:

The Purpose of the course is providing students with necessary concepts and tools enabling to manage and accelerate all process and activities contributing in delivering a product or a service in the shortest delay and the most effective method. Starting with the assurance of raw materials, passing by the manufacturing process, and finishing with the distribution of products and the delivery to customers. Differentiation between logistics and Supply will be taken into consideration. The course displays the methods to select the best suppliers and how to make them partners, the determination of the optimal rounds to collect or distribute products, the optimal methods to manage transport, inventory, warehouses localization, distribution

network structure, and allocating factories capacities to warehouses demands, by the means of mathematical optimization methods and operational research applications. The course also focus on subcontracting and outsourcing, their advantages and disadvantages. In addition to the new trends in Logistics and Supply Chain Management, particularly those related to Just In Time environment.

4. Intended Learning Outcomes (ILO):

| Code | Intended Learning Outcomes |
|------|---|
| ILO1 | Enabling students to understand Logistics and Supply Chain Management, their objectives, functions, relations to other functions, importance and performance measures . |
| ILO2 | Helping students to assimilate purchasing function, its objectives, its tasks, its relations to other functions, its computerization and its performance criteria. |
| ILO3 | Introducing purchasing scientific management, classification of materials, assessment and selection of suppliers. In addition to Just In Time purchasing. |
| ILO4 | Enabling students to assimilate flows management, transport management, optimal collecting or distributing rounds, finding out an optimal solution. |
| ILO5 | Making sure that students are aware of inventory management principals, main models and systems and ABC analysis method. |
| ILO6 | Enabling students to understand distribution networks principals, structural models, rotation center method and assigning issues. |
| ILO7 | Helping students to assimilate subcontracting in both production capacities and specialization, what criteria to subcontract, who decides, in addition to international subcontracting. |
| ILO8 | Introducing Just-In-Time Logistics, how to compromise, pull flows advantages and the search for new solutions. |
| ILO9 | Focusing on Supply Chain Management new trends, in purchasing and distribution, what are the future Logistics features. |

5. Course Syllabus (18 hours of total synchronized sessions; 18 hours of total Recorded Sessions)

- **RS**: Recorded Sessions; **SS**: Synchronized Sessions;

| ILO | Course Syllabus | RS | SS | Type | Additional Notes |
|-------------|---|-----------|-----------|---|-------------------------|
| ILO1 | Logistics & Supply Chain Management Logistics Supply Chain Management (SCM) Difference: Logistics & SCM SCM objectives Logistics History Links to other functions Logistics importance Logistics system performance | 1.5 | 1.5 | Exercises Assignments Seminars Projects Practices Others | |
| ILO2 | Purchasing Management. Purchasing concepts & functions Purchasing management objectives Purchasing links to other functions Purchasing tasks and performance criteria Purchasing management computerization | 1.5 | 1.5 | Exercises Assignments Seminars Projects Practices Others | |
| ILO3 | Purchasing Management Scientific Materials Classification Relationship with Suppliers Suppliers Assessment methods Principal assessment criteria | 1.5 | 1.5 | Exercises Assignments Seminars Projects Practices Others | |

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| | Just in Time Purchasing | | | | |
| ILO4 | Flows Organization & Management Logistics & Flows management Transport Management Transport decisions Rounds Organization Finding the optimal solution | 1.5 | 1.5 | Exercises Assignments Seminars Projects Practices Others | |
| ILO5 | Inventory Management & Applications Inventory management principals Classification analysis ABC Principal systems Simple models | 3 | 3 | Exercises Assignments Seminars Projects Practices Others | |
| ILO6 | Distribution Management Distribution Networks principals. Distribution Networks structural models. Rotation center method Assigning Factories to warehouses. | 1.5 | 1.5 | Exercises Assignments Seminars Projects Practices Others | |
| ILO7 | Subcontracting Subcontracting in production capacity Subcontracting in specialization Subcontracting Decision Criteria International Subcontracting Subcontracting decision taker | 3 | 3 | Exercises Assignments Seminars Projects Practices Others | |
| ILO8 | Just in Time & Logistics Logistics Management before & after JIT Compromising Logistics & JIT | 3 | 3 | Exercises Assignments Seminars Projects | |

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| | Pull Flows advantages Transport: critical step Searching for new solutions & tools | | | Practices Others | |
| ILO9 | SCM Current Trends Current & new SCM trends Supplying Systems Trends Distribution Systems Trends General Evolution in SCM Future SCM features | 1.5 | 1.5 | Exercises Assignments Seminars Projects Practices Others | |

6. Assessment Criteria (Related to ILOs)

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|------|--|----|---------------|-----|---------|
| ISC | Interactive Synchronized Collaboration | Ex | Exams | Rpt | Reports |
| PF2F | Presentations and Face-to-Face Assessments | PW | Practice Work | | |

| ILO Code | ILO | Intended Results | Assessment Type | | | | |
|-------------|---|------------------|-----------------|----|----|------|-----|
| | | | ISC | PW | Ex | PF2F | Rpt |
| ILO1 | Enabling students to understand Logistics and Supply Chain Management, their objectives, functions, relations to other functions, importance and performance measures | | X | | X | | |
| ILO2 | Helping students to assimilate purchasing function, its objectives, its tasks, its relations to other functions, its computerization and its | | X | | X | | |

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|-------------|---|--|---|---|---|--|--|
| | performance criteria. | | | | | | |
| ILO3 | Introducing purchasing scientific management, classification of materials, assessment and selection of suppliers. In addition to Just In Time purchasing | | X | | X | | |
| ILO4 | Enabling students to assimilate flows management, transport management, optimal collecting or distributing rounds, finding out an optimal solution | | X | X | X | | |
| ILO5 | Making sure that students are aware of inventory management principals, main models and systems and ABC analysis method. | | X | X | X | | |
| ILO6 | Enabling students to understand distribution networks principals, structural models, rotation center method and assigning issues. | | X | | X | | |
| ILO7 | Helping students to assimilate subcontracting in both production capacities and specialization, what criteria to subcontract, who decides, in addition to international subcontracting. | | X | X | X | | |
| ILO8 | Introducing Just-In-Time Logistics, how to compromise, pull flows advantages and the search for new solutions | | | | | | |

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| ILO9 | Focusing on Supply Chain Management new trends, in purchasing and distribution, what are the future Logistics features. | | X | | X | | |
|-------------|---|--|---|--|---|--|--|

7. Practice Tools:

| Tool Name | Description |
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8. Main References

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| <p>1. الزعبي، علي فلاح ؛ عزام، زكريا أحمد. (2012). إدارة الأعمال اللوجستية، دار المسيرة.</p> <p>2. ALTEKAR.V Rahul (2005) SUPPLY CHAIN MANAGEMENT: Concepts & Cases. Prentice–Hall of India– New Delhi 110001</p> |
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9. Additional References

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| <p>1. Sanders. R. Nada (2011) Supply Chain Management: A global Perspective. Wiley. ISBN: 978-0-470-14117-5.</p> <p>2. Chaubey, Shardul (2010) Logistics Management. Discovery Publishing House.</p> <p>3. References at the end of each chapter.</p> |
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