

**Master in Economic and Business Strategy
Department of Economics
University of Piraeus**

CORPORATE RESOURCE PLANNING AND LOGISTICS

Instructor Information:

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Course Description

The creation of customer value is a key issue of competitive advantage. At the firm level, the design of the value chain is closely linked with the management of a supply chain. An effective supply chain must be configured to deliver customer value while also maintaining crucial cost advantages. To minimize system-wide costs, firms increasingly rely on new tools for modeling the full supply chain to integrate the firm's logistics and operations. This course introduces students to the concept of value-driven supply chains and its integration with manufacturing and process operations.

The current course will provide a thorough presentation of management of corporate resources and logistics. Topics include physical supply, in-plant movement and storage, and physical distribution that comprise logistics systems in industry. Moreover facility location, transportation, networks, and logistics information systems are examined and analyzed.

Goals:

The ability to identify logistical problems, and create better business solutions using logistics methodologies.

Requirements and Evaluation:

Students are expected to read the assigned material and be prepared to discuss them in class. Moreover, evaluation is based on a project (40%) and its presentation (10%) along with a final exam (50%)

References

- **E.A. Silver, D.F. Payke and R. Peterson** (1998), *“Inventory Management and Production Planning and Scheduling”*, John Wiley & Sons, Third Edition .
- **J.J. Coyte, E.J. Bardi and C. J. Langley** (1996), *“The Management of Business Logistics”*, West, 6th edition.
- **R.E. Truman** (1981), *«Quantitative Methods for Decision Making in Business»*, Holf-Saunders International Editions, The Dryden Press.
- **N. A. Glaskowski, D.R. Hudson and R.M. Ivie,** (1992) *“Business Logistics”*, The Dryden Press.
- **Tony Wild** (1998) *“Best Practice in Inventory Management”* John Wiley & Sons.
- **C.D. Lewis** (1998) *“Demand Forecasting and Inventoty Control : A Computer Aided Learning Approach»*, John Wiley & Sons.
- **D.V. Landvater** (1997) *“World Class Production and Inventory Management”*, John Wiley & Sons.
- **S. Karkalakos** (2011), *Notes, «CORPORATE RESOURCE PLANNING AND LOGISTICS»*.

Week	Tentative Course Schedule
1	Strategy, Logistics Product
2	Logistic Modelling, Role and Importance of Logistics in Industry
3	Inventory Models, Variations on Inventory Models, Order Processing & Information Systems Transport Fundamentals
4	Probabilistic Inventory Models, Forecasting Logistics Requirements

5	Inventory Policy Decisions, Modes and Performance, Transport Cost Concepts
6	Forecasting and Analyzing Inventory Models
7	Production Systems and Logistics Management
8	Environmental Aspects of Logistics and Transport
9	Order Processing & Information Systems Output analysis and run-length control
10	Facility Location Decisions Routing and Scheduling
11	Network Planning Process
12	Logistics Organization, Logistics Audit & Control / Presentations