IE 413
Supply Chain Management
Fall 2008

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Course schedule MWWFF 33434 all in M 3120

Course web page http://karagoz.ie.boun.edu.tr/moodle/ (enrolment key: fall08scm)

This course provides an introduction to basic supply chain management concepts. Focus of the course is long, mid and short-term planning functions, including inventory, production and logistics planning. Throughout the course, students will be introduced to real life scenarios, and they will be expected to use a commercial ERP system on a test case as a term project.

Prerequisite: IE312 or equivalent

Textbook Nahmias S., *Production and Operations Analysis*, McGraw Hill, Fifth Edition, 2005.

References

Pinedo M. *Scheduling: Theory Algorithms and Systems*. Prentice Hall. 2nd Edition. 2002.

Silver E.A., D.F. Pyke, and R. Peterson, *Inventory management and Production Planning and Scheduling*, 3rd ed., Wiley, 1998.

Vollmann, Berry, Whybark, Jacobs *Manufacturing Planning & Control for Supply Chain Management* . McGraw Hill. 5th Edition. 2004.

Johnson L. A. and D. C. Montgomery. *Operations Research in Production Planning, Scheduling and Inventory Control*. Wiley and Sons. 1974.

Hax, A. C. and D. Candea. *Production and Inventory Management.* Prentice Hall. 1984.

Grading

Midterm 1	20%	November 12, 2008 Wednesday
Midterm 2	20%	December 17, 2008 Wednesday
Final	30%	
Quizzes + Assgn	15%	
Project	15%	

Outline

1.	Introduction	I	(0.5 week)	Ch. 1
2.	Aggregate Planning		(2 weeks)	Ch. 3
3.	Master Production Schedule (MPS)		(1 week)	Notes
4.	Material Requirements Planning (MRP) and Just-in-time (JIT)		(1 week)	Notes & Ch. 7
5.	Distribution Requirements Planning (DRP) and Capacity Requirements Planning (CRP)		(1 week)	Notes
6.	Production scheduling		(3 weeks)	Ch. 8 & Notes
7.	Inventory management and Supply Chain Contracts		(3 weeks)	Notes & Ch.5
8.	Supply chain logistics functions		(2 weeks)	Notes & Ch.6