

School of Engineering and Natural Sciences / Industrial Engineering (English)

2024 - 2025 Academic Year

SUPPLY CHAIN MANAGEMENT

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
SUPPLY CHAIN MANAGEMENT	IND3249170	Spring Semester	3+0	3	6
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Assoc.Prof. Melis Almula KARADAYI				
Name of Lecturer(s)	Assoc.Prof. Melis Almula KARADAYI				
Assistant(s)					
Aim	To introduce the general structure of supply chains and to examine problems in supply chains				
Course Content	This course contains; Introduction to Supply Chain Management,Supply Chain Concepts ,Project Management in Supply Chains,Demand Forecasting in Supply Chains,Aggregate Planning in Supply Chains,Aggregate Planning in Supply Chains-Case Study,Transportation Models in Supply Chains,Supply Chain Distribution Network Design,Inventory Management Models in Supply Chains ,Managing Risks in Supply Chains,Supplier Selection Models in Supply Chains I,Supplier Selection Models in Supply Chains II,Term Project Presentations I,Term Project Presentations II.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Explain the key components and concepts in a supply chain			10, 16, 9	A, E	
Predicts demand in a supply chain			10, 16, 9	A, E, G	
Performs aggregate planning in a supply chain			12, 16, 9	A, E, G	
Design distribution network in a supply chain			12, 16, 9	A	
Manage inventory in a supply chain			12, 9	A, G	
Apply supplier selection models			12, 9	A, E, G	
Having knowledge about real-life supply chain management approaches and problems			13, 14, 16	F	
Teaching Methods	10: Discussion Method, 12: Problem Solving Method, 13: Case Study Method, 14: Self Study Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task, G: Quiz				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to Supply Chain Management	Lecture Notes			
2	Supply Chain Concepts	Lecture Notes			
3	Project Management in Supply Chains	Lecture Notes			
4	Demand Forecasting in Supply Chains	Lecture Notes			
5	Aggregate Planning in Supply Chains	Lecture Notes			
6	Aggregate Planning in Supply Chains-Case Study	Lecture Notes			
7	Transportation Models in Supply Chains	Lecture Notes			
8	Supply Chain Distribution Network Design	Lecture Notes			
9	Inventory Management Models in Supply Chains	Lecture Notes			
10	Managing Risks in Supply Chains	Lecture Notes			
11	Supplier Selection Models in Supply Chains I	Lecture Notes			
12	Supplier Selection Models in Supply Chains II	Lecture Notes			
13	Term Project Presentations I	Lecture Notes			
14	Term Project Presentations II	Lecture Notes			
Evaluation Methods		Weight(%)			
Midterm Exam		30			
General Exam		70			

Resources
Lecture notes Chopra, S., Meindl, P., Supply Chain Management: Strategy, Planning, and Operation. ISBN-10: 0133800202, Pearson