Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
ML533	Supply Chain Design and Planning	2	3	0	0	3	6

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Compulsory
Course Level	Masters Degree
Objective	This course provides an overview of supply chain management principles and practices. Students will learn about the key components of supply chains, including procurement, production, logistics, and distribution. The course will cover various strategies and tools used to optimize supply chain performance, reduce costs, and enhance overall efficiency.
Content	Supply Chain and Logistics Systems Performance in the Supply Chain Factors and Criteria in the Supply Chain Demand Forecasting in the Supply Chain Aggregate Planning in the Supply Chain Distribution Network Design Location Planning Midterm Exam Sales and Operations Planning Inventory Management Transportation Planning Warehouse Management Material Handling Risk Management in the Supply Chain
References	Chopra, S., Meindl,P., Supply Chain Management: Strategy, Planning and Operations, 6th Edition, Prentice Hall, 2015.

Theory Topics

Week	Weekly Contents
1	Supply Chain and Logistics Systems
2	Performance in the Supply Chain
3	Success Factors in the Supply Chain
4	Demand Forecasting in the Supply Chain
5	Aggregate Planning in the Supply Chain
6	Distribution Network Design
7	Location Planning
8	Midterm Exam
9	Sales and Operations Planning
10	Inventory Management
11	Transportation Planning
12	Warehouse Management
13	Material Handling
14	Risk Management in the Supply Chain