

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
STORAGE and INVENTORY MANAGEMENT	ULY3157320	Fall Semester	3+0	3	4
Prerequisites Courses					
Recommended Elective Courses	Purchasing and Supply Planning				
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Gonca Reyhan AKKARTAL				
Name of Lecturer(s)	Lect.Dr. Tolga MEMİKA				
Assistant(s)	Case Studies' documents				
Aim	Storage and Inventory Management, is one of the most basic functions of the logistics management. Companies use the functions of the storage and related inventory in order to meet the requested amount of their customers in right time. At this point, the important thing is to choose where and with the elders of the warehouse inventory is to determine the most appropriate way of quantities.				
Course Content	This course contains; Warehouse and Storage Concepts and objectives, Storage area and it's importance within the business Organization and supply chain, Materials management and objectives, Materials' types and encoding system, Types Of Stored Materials, Storage types, Warehouse classification, Stock and Inventory concepts, Logistics management and Stock, Comparison of rent and owned Storehouses, Storage-based Logistics Models, Stock types, The purpose and function of the Stock Management, Single or Multiple site warehouse selection, ABC analysis of inventory items, Single and Multi-criteria inventory items' classification, Storage location selection methods, Factor-Points method, Center of Gravity method, Calculation of Inventory costs, Storage Processes, basic and support processes, relationship between inventory and capital, Purchases and sales-term effects on the cost of the stock, Storage areas, Exterior and Interior environment, Independent demand inventory control model for the structure of basic demand, maximum and minimum inventory levels and ordering, Workforce planning and placement in the Storage systems, Loading/Unloading Techniques, Economic order and production quantities according to the calculations for the methods of determining inventory, Addressing Systems, ABC Analysis, Goods movements (FIFO, LIFO, e.t.c.), Stocks and factors affecting Safety, Demand quantity and methods for reduction of aberrations in the duration of supply, Warehouse equipment and containers, Simple Inventory and Pending Orders (Backordering) Inventory control models, Inventory control model based on quantity discount price, Warehouse Information Systems, dependent demand based Inventory systems and master production schedule and Bill of Materials, Cost and Performance management in warehouse, Material Requirements Planning (MRP) System, Warehouse Design, determining net Requirements and Scheduling-matrix method, Distribution systems, determination of the order quantity in MRP (lot sizing).				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Will be able to list the basics of warehouse management.			10, 16, 9	A	
1.1. Designs and organizes warehouse layout.			10, 16, 9	A	
1.2. Tracks warehouse equipment and technologies.			10, 16, 9	A	
2. Will be able to analyze warehouse operations and processes.			10, 16, 9	A	
2.1. Specifies the Receiving and Inspection Processes.			10, 16, 9	A	
2.2. Establishes Intra-warehouse Placement and Transportation Connections.			10, 16, 9	A	
3. Will be able to manage warehouse stock management.			10, 16, 9	A	
3.1. Predicts Stock Levels.			10, 16, 9	A	
3.2. Monitors Stock Movements.			10, 16, 9	A	
4. Will be able to use relevant concepts to ensure warehouse security and risk management.			10, 16, 9	A	
4.1. Keeps Warehouse Internal Security Protocols Under Control.			10, 16, 9	A	
4.2. Manages Warehouse Risks and Crisis Management.			10, 16, 9	A	
5. Will be able to keep the warehouse performance and efficiency at maximum level.			10, 16, 9	A	
5.1. Provides Performance Measurement and Improvements.			10, 16, 9	A	
5.2. Implements Warehouse Workforce Management and Training.			10, 16, 9	A	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Warehouse and Storage Concepts and objectives, Storage area and it's importance within the business Organization and supply chain, Materials management and objectives, Materials' types and encoding system	Supplying the documents			
2	Types Of Stored Materials, Storage types, Warehouse classification, Stock and Inventory concepts, Logistics management and Stock				
3	Comparison of rent and owned Storehouses, Storage-based Logistics Models, Stock types, The purpose and function of the Stock Management				
4	Single or Multiple site warehouse selection, ABC analysis of inventory items, Single and Multi-criteria inventory items' classification				
5	Storage location selection methods, Factor-Points method, Center of Gravity method, Calculation of Inventory costs				
6	Storage Processes, basic and support processes, relationship between inventory and capital, Purchases and sales-term effects on the cost of the stock				
7	Storage areas, Exterior and Interior environment, Independent demand inventory control model for the structure of basic demand, maximum and minimum inventory levels and ordering				
8	Workforce planning and placement in the Storage systems, Loading/Unloading Techniques, Economic order and production quantities according to the calculations for the methods of determining inventory				

Lecture Schedule		
Sequence	Topics	Preliminary Preparation
9	Addressing Systems, ABC Analysis, Goods movements (FIFO, LIFO, e.t.c.), Stocks and factors affecting Safety, Demand quantity and methods for reduction of aberrations in the duration of supply	
10	Warehouse equipment and containers, Simple Inventory and Pending Orders (Backordering) Inventory control models, Inventory control model based on quantity discount price	
11	Warehouse Information Systems, dependent demand based Inventory systems and master production schedule and Bill of Materials	
12	Cost and Performance management in warehouse, Material Requirements Planning (MRP) System	
13	Warehouse Design, determining net Requirements and Scheduling-matrix method	
14	Distribution systems, determination of the order quantity in MRP (lot sizing)	
Evaluation Methods		Weight(%)
Midterm Exam		40
General Exam		60

Resources	
RESOURCES: 1) "Depo Yönetimi" Prof. Dr. Mehmet Tanyaş – Yrd. Doç. Dr. Murat Düzgün, Ankara, 2014, ISBN: 978 605 133 879 8. Excellence in Warehouse Management How to Minimise Costs and Maximise Value By Stuart Emmett · 2011	