



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Production Logistics							
Course Code		LYM522		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	127 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to describe logistics activities in the design and operation of manufacturing systems. Also, show the importance of potentially disruptive events.							
Course Content		This course deals with the following topics: models of manufacturing systems,queueeing networks and their applications.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Fundamentals of Production Logistics: Theory, Tools and Applications. Nyhuis, P., & Wiendahl, H. P. (2008). Springer Science & Business Media.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Review of the Syllabus
2	Theoretical	A General Overview of Manufacturing
3	Theoretical	Integration of Logistics & Production
4	Theoretical	Queueing Models
5	Theoretical	Queueing Models
6	Theoretical	Queueing Models
7	Theoretical	Clodes-Loop Production Systems-I
8	Theoretical	Clodes-Loop Production Systems-II
9	Intermediate Exam	Midterms
10	Intermediate Exam	Misdterms
11	Theoretical	KANBAN Production Systems
12	Theoretical	KANBAN Production Systems
13	Theoretical	CONWIP Production Systems
14	Theoretical	CONWIP Production Systems
15	Theoretical	Distribution Models
16	Final Exam	Finals

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	0	3	39
Reading	13	0	2	26
Midterm Examination	1	25	1	26
Final Examination	1	35	1	36
Total Workload (Hours)				127
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Understand the differences between push and pull systems
2	Understand the differences between CONWIP and KANBAN systems
3	Understand the nature of logistics operations in manufacturing systems
4	Understand the nature of Closed Loop Systems
5	Understand the nature of Distribution Models

Programme Outcomes (*Logistics Management Interdisciplinary Master*)

1	Being able to contribute to the institution the participant works for and the logistics sector by the use of the knowledge and abilities gained during the education period; and manage change in the institution and the sector;
2	Reaching a competency about contemporary business and technology applications in the area of logistics and supply chain management and analysis and strategy development methods;
3	Being able to create opportunities by combining supply chain management with information technologies and innovative processes by the use of the interdisciplinary courses the participants take;
4	Having the ability to develop creative solutions by working on global logistics and supply chain subjects and realizing these by the use of their project management knowledge;
5	Having the knowledge, abilities and capabilities required for effective logistics and supply chain management by the use of a problem and case analysis based learning;
6	Being able to examine logistics and supply chain processes with the management science viewpoint, analyze related concepts and ideas by scientific methods;
7	If continuing to work in the academia, having the necessary information on logistics applications; if continuing to work in the sector, having the necessary knowledge on conceptual subjects;
8	Being able to specify appropriate research questions about his/her research area, conduct an effective research with the use of necessary methods and apply the research outcomes in the sector or the academia;
9	Being able to follow the changes and developments in the sector the participant works in, in order to keep his/her personal and professional competence updated and develop himself/herself when necessary;
10	Have the necessary capabilities to pursue doctoral studies in national and foreign institutions

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	4	4	4	4	5
P2	3	3	3	3	3
P3	2	2	2	4	1
P4	5	1	3	3	3
P5	5	3	4	4	2
P6	4	3	3	3	2
P7	1	4	1	2	1
P8	3	3	1	3	4
P9	3	3	3	5	3
P10	5	4	4	3	3

