

PRODUCTION PLANNING AND MANAGEMENT

1	Course Title:	PRODUCTION PLANNING AND MANAGEMENT	
2	Course Code:	END5553	
3	Type of Course:	Optional	
4	Level of Course:	Second Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	7.50	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. BETÜL YAĞMAHAN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	betul@uludag.edu.tr + 90 (224) 294 20 88 Uludag University, Faculty of Engineering-Architecture, Department of Industrial, Gorukle Campus, Bursa 16059, Turkey	
17	Website:		
18	Objective of the Course:	The aim of this course is to teach the students how to formulate, solve and apply the models in order to decide accurately the most economical way to meet the demand of products in systems which are established to produce goods and /or service. For this purpose, to teach the implementation of methods and instruments successfully which are used in various fields such as production planning, production scheduling, inventory control	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Being able to understand the problems in production processes and formulate of the models
		2	Being able to use the necessary methods for the design of the production processes
		3	Being able to use the necessary methods for the management of the production processes
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	

1	Instructor Introduction; Course Overview Introduction to production systems	
2	Forecasting and Forecasting models	
3	Aggregate Planning and models	
4	Capacity Requirements Planning	
5	Inventory Control Subject to Known Demand	
6	Inventory Control Subject to Uncertain Demand	
7	MRP- Materials Requirements Planning	
8	JIT- Just-In-Time	
9	Lean Manufacturing	
10	Repeating courses and midterm exam	
11	Operations Scheduling	
12	Assembly Line Balancing	
13	Supply Chain Management	
14	Supply Chain Management	

22	Textbooks, References and/or Other Materials:	1. Production and Operation Analysis, S. Nahmias, McGraw Hill, 2008. 2. Design and Analysis of Lean Production Systems, Askin, R.G., Goldberg, J.B., Wiley, 2002
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Activities		Number	Duration (hour)	Total Work Load (hour)
Theoretical				
23	Assesment	14	3.00	42.00
Practicals/Labs		0	0.00	0.00
Self study and preperation	R	14	8.00	112.00
Homeworks		2	14.00	28.00
Quiz	0	0.00	30.00	30.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Final Exam	1	50.00	7.00	7.00
Midterm exams		0	0.00	0.00
Others		0	0.00	0.00
Contribution of Term (Year) Learning Activities to Final Exams		50.00	7.00	7.00
Total Work Load				226.00
Contribution of Final Exam to Success Grade		50.00		7.53
Total work load/ 30 hr				7.50
ECTS Credit of the Course				7.50

Measurement and Evaluation Techniques Used in the Course		
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24	ECTS / WORK LOAD TABLE
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	2	2	0	0	2	0	0	0	0	0	0	0	0
ÖK3	0	0	0	2	2	0	0	2	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications					
Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High