

OPERATIONS RESEARCH II

1	Course Title:	OPERATIONS RESEARCH II	
2	Course Code:	END3034	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	1	
11	Prerequisites:	END3033	
12	Language:	English	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. DUYGU YILMAZ EROĞLU	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Doç. Dr. Duygu Yılmaz Eroğlu duygueroglu@uludag.edu.tr, 0(224) 2940916 Endüstri Mühendisliği Bölümü Görükle Bursa	
17	Website:		
18	Objective of the Course:	The objective of the course is to provide different solution techniques for varying problem definitions such as network models, stochastic systems and non-linear systems that can be encountered in the service and production industries.	
19	Contribution of the Course to Professional Development:	It's been planned to contribute to professional development by analyzing real life problems by scientific methods and offering solutions.	
20	Learning Outcomes:		
		1	Ability to build advanced mathematical models of real life systems
		2	Ability to determine correct solving methodology of a given problem.
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21	Course Content:		
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Week	Theoretical	Practice	
1	Introduction to Integer Programming	Sample problems	
2	Formulating Integer Programming Problems	Sample problems (either-or constraints; if then constraints)	

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
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