

OPERATIONS RESEARCH

1	Course Title:	OPERATIONS RESEARCH	
2	Course Code:	BMB2016	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	5.00	
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:	Prof. Dr. PINAR KIRCI	
15	Course Lecturers:	yok	
16	Contact information of the Course Coordinator:	Bilgisayar müh. bölüm binası 1. kat oda 110 pinarkirci@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	To teach approaches for modelling stochastic and deterministic systems that can be encountered in real life and the methods for making optimal decisions in problems concerning such systems	
19	Contribution of the Course to Professional Development:	to learn approaches for modelling stochastic and deterministic systems that can be encountered in real life	
20	Learning Outcomes:		
		1	Being able to mathematically model stochastic or deterministic systems in real life
		2	Being able to formulate the problems that may arise in a system
		3	Being able to select the appropriate optimization method for a problem
		4	Being able to use software tools in modelling the systems and solving the optimization problems
		5	
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Introduction, mathematical model design and modelling philosophy		
2	Linear programming and simplex algorithm		
3	Solving linear programming problems using LINDO		

ÖK4	4	4	3	5	3	3	1	1	3	1	1	1	1	1	1	1
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			