

M.A. PROGRAM IN BUSINESS MANAGEMENT (WITH THESIS) COURSE SYLLABUS FORM

Course Details										
Code					emic Y	ear	Semes	Semester		
ВМ062					1			Elective		
Title						L ECTS				
Decision Theory						0	6			
Language	English									
Level	Undergraduate		Graduate	Х	X Postgra					
Department / Program	Business Managemer	t								
Forms of Teaching and Learning	Face to face									
Course Type	Compulsory		Ele	Elective			x			
Objectives	The aim of this course is to enable students to develop solutions to business problems by using the methods in decision theory.									
Content	Introduction to decision theory, decision making under certainty, uncertainty and risk, decision trees and Bayes approach, game theory, basic information about multi-criteria decision making methods, analytical hierarchy process, analytical network process, VIKOR, TOPSIS, ELECTRE, PROMETHEE, MOORA, data envelopment analysis									
Prerequisites	-									
Coordinator	Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR									
Lecturer(s)	-									
Assistant(s)	-	-								
Work Placement	-									
Recommended or Required Re	ading									
Books / Lecture Notes	 Tzeng, G. H., Huang, J.J., Multiple Attribute Decision Making Methods and Applications, 2011, CRC Press Hwang, C.L., Yoon, K., Multiple Attribute Decision Making Methods and Applications, 1981, Springer Özbek, A., Çok Kriterli Karar Verme Yöntemleri ve Excel ile Problem Çözümü Kavram-Teori-Uygulama, 2017, Seçkin Yayıncılık 									
Other Sources	-									
Additional Course Material										
Documents	-									
Assignments	-									
Exams	-									
Course Composition										
Mathematics und Basic Sciences							40%			
Engineering	%									



M.A. PROGRAM IN BUSINESS MANAGEMENT (WITH THESIS) COURSE SYLLABUS FORM

		COURSE SYLL	ABUS FURM						
Engineering Desi	ign	%							
Social Sciences				20%					
Educational Scie	nces			%					
Natural Sciences	1			%					
Health Sciences				%					
Expert Knowleds	ge			40%					
Assessment									
Acti	vity	Cou	Percentage (%)						
Midterm Exam		1	40						
Quiz									
Assignments									
Attendance									
Recitations									
Projects									
Final Exam		1		60					
			Total						
ECTS Points an	d Work Load								
Acti	vity	Count	Duration	Work Load (Hours)					
Lectures		14	3	42					
Self-Study		14	3	42					
Assignments									
Presentation / S Preparation	eminar								
Midterm Exam		1	48	48					
Recitations									
Laboratory									
Projects									
Final Exam		1 48		48					
			Total Work Load	180					
	ECTS Points (Total Work Load / Hour) 6								
Learning Outco	mes								
1	Students can de	ecide under certainty, uncertaint	y and risk.						
2	Students can use decision trees.								
3	Students have basic knowledge about game theory.								
4	Students can use various decision making methods frequently used in the literature.								
Weekly Conter	nt								



M.A. PROGRAM IN BUSINESS MANAGEMENT (WITH THESIS) COURSE SYLLABUS FORM

1	Introduction to decision theory, decision making under certainty, uncertainty and risk												
2	Decision trees and Bayes approach												
3	Game theory												
4	Game theory												
5	Basic information about multi-criteria decision making methods												
6	Analyti	Analytical hierarchy process											
7		Analytical network process											
8	VIKOR	VIKOR											
9	Mid-term exam												
10	TOPSIS												
11	ELECTRE												
12	PROMETHEE												
13	MOOR	MOORA											
14	Data envelopment analysis												
15	Data er	Data envelopment analysis											
Contribution of	Learnin	g Outo	comes to	Progran	n Object	tives (1	-5)						
	P1	P2	Р3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
1	4	5	5	5	5	5	5	4	4	5	5	5	5
2	4	5	5	5	5	5	5	4	4	5	5	5	5
3	4	5	5	5	5	5	5	4	4	5	5	5	5
4	4	5	5	5	5	5	5	4	4	5	5	5	5
Contribution Level 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High													
Compiled by:			Asst. Prof. Dr. Mehmet Hakan ÖZDEMİR (Head of Sub-Department Quantitative Methods)										
Date of Compilat		04.06.2020											