MULTI-CRITERIA DECISION MAKING										
1	Course Title:	MULTI-CRITERIA DECISION MAKING								
2	Course Code:	EKO5121								
3	Type of Course:	Optional								
4	Level of Course:	Second Cycle								
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	2.00								
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. DİLEK MURAT								
15	Course Lecturers:	Yok								
16	Contact information of the Course Coordinator:	e-posta : dilekm@uludag.edu.tr Telefon: 0 224 29 40732 Adres: Uludağ Üniversitesi, İktisadi ve İdari Bilimler Fakültesi, Ekonometri Bölümü,16059, Görükle/Bursa.								
17	Website:									
18	Objective of the Course:	The aim of the course is to to provide students with decision-making skills via introduce various decision-making methods used in multi-criteria decision-making problems and apply them to complex real-life problems.								
19	Contribution of the Course to Professional Development:	This course contributes to the design of a multi-criteria decision problem, determining the criteria priorities and solving the problem.								
20	Learning Outcomes:									
		1	To be able to define the basic concepts and assumptions related to decision analysis							
		2	To be able to define multi-criteria decision making problems and learn the basic concepts							
		3	To be able to detect the factors affecting multi-criteria decision making problems							
		4	To be able to collect the data about the multi-criteria decision making problem							
		5	To be able to model of multi-criteria decision making problems							
			To be able to determine of criterion weights for multi- criteria problems using appropriate methods							
			To be able to choose the most appropriate multi-criteria decision-making method according to the purpose							
		8	To be able to interpret the results by solving multi-criteria decision making problems							
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Week Theoretical Practice									

1	Introduction to decision theory								
2	Decision making under uncertainty								
3	Basic concepts in decision making pr	oblems							
4	Modeling of decision making problem creation of data set	ns and							
5	Determination of criteria and weightir	ng							
6	Analytical Hierarchy Process (AHP)								
7	Analytical Network Process (ANP)								
8	ARAS Method								
9	COPRAS Method								
10	Gray Relational Analysis								
11	MOORA Method								
12	ELECTRE Method								
13	TOPSIS Method								
14	VIKOR Method								
22	Textbooks, References and/or Other Materials:		<ol> <li>Bahadır Fatih Yıldırım, Emrah Önder, (2018), Çok Kriterli Karar Verme Yöntemleri, Dora Yayıncılık.</li> <li>Ejder Ayçin, (2019), Çok Kriterli Karar Verme, Nobel Yayıncılık, Ankara.</li> <li>K . Paul Yoon, ChingLai Hwang, (1995), Multiple Attribute Decision Making: An Introduction –SAGE Publications.</li> <li>Alessio Ishizaka, Philippe Nemery. (2013), Multi-criteria Decision Analysis: Methods and Software, Chichester, West Sussex.</li> </ol>						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midtern	n Exam	0	0.00						
Quiz		0	0.00						
	vork-project	0	0.00						
Final E	xam	1	100.00						
Total		1	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			0.00						
Contribution of Final Exam to Success Grade			100.00						
Total			100.00						
Course			Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Postgraduate Education Regulation.						
24	ECTS / WORK LOAD TABLE								

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	2	15.00	30.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	25.00	25.00
Total Work Load			125.00
Total work load/ 30 hr			4.17
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	4	5	4	4	4	2	2	2	2	3	2	0	0	0	0
ÖK2	4	4	4	3	4	4	2	2	1	2	3	3	0	0	0	0
ÖK3	2	3	4	2	3	3	2	1	1	2	3	4	0	0	0	0
ÖK4	4	4	5	4	3	3	3	2	1	2	4	4	0	0	0	0
ÖK5	4	3	5	4	4	4	3	2	1	2	5	5	0	0	0	0
ÖK6	2	2	3	2	5	2	1	1	1	2	3	3	0	0	0	0
ÖK7	4	3	5	4	4	4	3	3	1	2	5	5	0	0	0	0
ÖK8	5	3	5	5	4	4	3	3	1	2	5	5	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low 2 low ution Level:				3 Medium			4 High			5 Very High						