MULTI-CRITERIA DECISION MAKING										
1	Course Title:	MULTI-C	CRITERIA DECISION MAKING							
2	Course Code:	ISL5321								
3	Type of Course:	Optional								
4	Level of Course:	Second	Cycle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	6.00								
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:	Dr. Ögr. Üyesi Burcu AVCI ÖZTÜRK								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	bavci@uludag.edu.tr Tel: 0224 29 41157								
17	Website:									
18	Objective of the Course:	In general terms, the main objective of the course is to teach how to use multi-criteria decision making (MCDM) methods in order to support MCDM processes in business. In detail, teaching how to create, solve and interpret results of the MCDM problems for various business problems encountered in different management levels and teaching how to analyze the interpreted results and adopt or put them into practice are the main objectives of the course.								
19	Contribution of the Course to Professional Development:	MCDM contributes to all kinds of business-related processions in terms of analyzing and interpreting numerical data and decision making.								
20	Learning Outcomes:									
		1	Identifies criteria affecting a business problem.							
		2	Calculates weights of criteria in MCDM problems using appropriate methods.							
		3	Can model MCDM problems.							
		4	Will be able to choose and apply the most suitable method for MCDM problem.							
		5	Can calculate group decision and use results for decision support.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Week Theoretical Practice									

1	Basic concepts of decision making, d making process and modeling of dec problems							
2	Multi-Criteria Decision Making (MCDI Process (Weighting, Sequencing, Classification),	M)						
3	Simple Additive Weighting Method							
4	The basic structure of the Analytical Hierarchy Process (AHP) and the cre the hierarchical structure	ation of						
5	Usage and application examples of A	.HP						
6	Analytical Network Process (ANP)							
7	TOPSIS Method							
8	TOPSIS Method							
9	VIKOR Method							
10	Gray Relational Analysis (GRA)							
11	ELECTRE Method							
12	PROMETHEE Method							
13	Integrated MCDM problems, group de and business practices.	ecisions						
14	Integrated MCDM problems, group dand business practices.	ecisions						
22	Textbooks, References and/or Other Materials:		Belton, V, Stewart, T.J., 2002. Multi-criteria Decision Analysis: An Integrated Approach, Kluwer Academic					
			Publishers, Boston.					
			Tzeng, G.H., Huang, J.J. 2011. Multiple Attribute Decision Making: Methods and Applications, CRC Press Taylor & Francis Group, Boca Raton.					
			Bahadır Yıldırım, Emrah Önder, Çok Kriterli Karar Verme Yöntemleri, Dora Yayıncılık (2015)					
23	Assesment							
	EARNING ACTIVITIES	R	WEIGHT					
Midtern	n Exam	0	0.00					
Quiz		0	0.00					
Home work-project 1		1	40.00					
Final Ex	xam	1	60.00					
Total		2	100.00					
	ution of Term (Year) Learning Activities s Grade	es to	40.00					
Contribution of Final Exam to Success Grade			60.00					
Total			100.00					
Measur Course	rement and Evaluation Techniques Us	sed in the	Homework and Written exam					
24	ECTS / WORK LOAD TABLE							

Activites		Number	Duration (hour)	Total Work Load (hour)						
Theoretical		14	3.00	42.00						
Practicals/L	_abs	0	0.00	0.00						
Self study a	and preperation	14	3.00	42.00						
Homework	S	1	55.00	55.00						
Projects		0	0.00	0.00						
Field Studie	es	0	0.00	0.00						
Midterm ex	ams	0	0.00	0.00						
Others		0	0.00	0.00						
Final Exam	IS .	1	35.00	35.00						
Total Work	Load			174.00						
Total work	load/ 30 hr			5.80						
ECTS Cred	dit of the Course			6.00						
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS									
PO1 PO2 PO3 PO4 PO5  PO6 PO7 PO8 PO9 PO1  PO11 PO12 PO1  PO14  PO15  PO16										

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	3	5	3	2	1	1	2	1	1	5	1	0	0	0	0
ÖK2	3	3	4	3	2	1	1	2	1	1	5	1	0	0	0	0
ÖK3	3	3	4	3	2	1	1	2	1	1	5	1	0	0	0	0
ÖK4	4	3	5	3	2	1	1	2	1	1	5	1	0	0	0	0
ÖK5	5	4	5	5	2	2	1	2	1	1	5	1	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		2	2 low		3 Medium			4 High			5 Very High					