	STATICAL PATTER		LYSIS AND CLASSIFICATION							
1	Course Title:	STATIC	AL PATTERN ANALYSIS AND CLASSIFICATION							
2	Course Code:	ELN6415								
3	Type of Course:	Optional								
4	Level of Course:	Third 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:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Doç. Dr. ERSEN YILMAZ								
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:	Doç. Dr. Ersen Yılmaz E-posta:ersen@uludag.edu.tr Tel: (224) 294 2032 Adres: Elektronik Mühendisliği Bölümü 4. Kat, No:424								
17	Website:	http://home.uludag.edu.tr/~ersen								
18	Objective of the Course:	This course objective is to give fundamental principle and recent techniques in probability modelling in multidimensional decision space, statistical analysis, classifiacation and error analysis.								
19	Contribution of the Course to Professional Development:	Provides the ability to reach and interpret the information about the field of study.								
20	Learning Outcomes:									
		1	Abilility to make literature review, follow and make technical presentation and write an article in academic level on Statistical Pattern Analysis and Classification.							
		2	Abilility to use mathematics, science and engineering knowledge in advanced research on Statistical Pattern Analysis and Classification.							
		3	Abilility to use software, hardware and modern measurement equipments required for the research studies in the field of expertise Statistical Pattern Analysis and Classification.							
		4	Abilility to find original ways and solutions by innovative and questioning thinking on Statistical Pattern Analysis and Classification.							
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							

Week	Theoretical								Pr	Practice										
1	Statistical analysis and fundamentals on classification.																			
2	Multidimensional probability distributions.																			
3	Multidimensional probability distributions																			
4	Multio	dime	ension	al stat	tistica	l analy	sis.													
5	Multio	dime	ension	al stat	tistica	l analy:	sis.													
6	Para	metr	ic cla	ssifica	tion.															
7	Para	metr	ic cla	ssifica	tion.															
8	Midterm Exam and course review																			
9	Nonp	arar	metric	class	ificatio	on.														
10	Linea	ar an	nd Nor	nlinear	class	sificatio	n.													
11	Classification using sequential and contextual information.																			
12	Classification using sequential and contextual information.																			
13	Stochastic classification.																			
14	Stoch	Stochastic classification.																		
22	Textbooks, References and/or Other Materials:								20 2. Ac	<ol> <li>Statistical Pattern Recognition, Second Edition, Wiley, 2002</li> <li>Introduction to Statistical Pattern Recognition, Academic Press. 1990</li> </ol>										
Activit	Activites									Numb	ber			ition (		Total Work Load (hour)				
Theore	eoretical R									14			3.00			42.00				
	cticals/Labs									0			0.00			0.00				
Self stu	UZ 0									14			5.00			70.00				
	meworks									0			0.00			0.00				
	Exam 1 CIS La									000			0.00			0.00				
Field St			orm ()		Aarn	ing Act		to		0  40,00						0.00				
	tribution of Term (Year) Learning Activities to cess Grade															28.00				
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Final E									╧┵	1			40.00		40.00					
	Total Work Load									asure	ment a	ind eval	uation i	s carri		208.00	a to			
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	P	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	0		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0			
ÖK2	5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ÖK3	0		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

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