Course title			Code	semester	T+U	credit	ECTS			
Pattern Recognition				8	3+0	3	4			
Prerequisite	e Courses	None								
Language of		English								
Course Level		Undergraduate								
Type of Cou		Optional								
Course Coo	rdinator									
Instructors										
Course Assi										
The aim of l	esson	The aim of this course is to teach methods for pattern classification and recognition								
Course Content		and to implement applications.								
		Pattern recognition systems, optical pattern recognition systems, pattern recognition methods, statistical methods, fukunaga-koontz transform, fuzzy classifier, stochastic								
							gnition with mach			
		filters, optical hardware elements, joint transformation correlation, optical overlap filter, optical fourier correlation, adaptive optical co-transform correlation, pattern								
		tracking, pattern tracking from sequential images, pattern recognition performance								
				sing characteris						
Course Lean	rning			ully complete the		-1-:11 o				
Outcomes		1. Will be able to have pattern recognition skills,								
		 Will be able to have pattern classification skills, Will be able to have optical pattern recognition skills, 								
		 Will be able to have target recognition and tracking skills, 								
		5. Will be able to acquire pattern recognition system design skills.								
Weeks	Topics									
one	Introduction t	ntroduction to Pattern Recognition								
2	Statistical Cla	tical Classifiers								
3	Fukunaga-Ko	ukunaga-Koontz Transform								
4	Fuzzy Classif	Fuzzy Classifier								
5	Stochastic Methods									
6	Size Reduction									
7	Optical Filters									
8	Optical Filters									
9	Classification with Optical Overlap Filters									
10	Optical Fourier Correlation									
11th	Common Conversion Correlation									
12	Adaptive Joint Conversion Correlation									
13	Pattern Tracing in Sequential Images									
14	Pattern Recog	gnition Performa	nce Metrics	8						
15	Pattern Recog	gnition Performa			petition		_			
			General Co	ompetencies						
Teaching me	thods for pattern	n classification a	and recognit	ion and perform	ning applica	tions.				
			reso	urces						
	Hart, D. Stork, 69-0	"Pattern Classif	ication", 2n	d Edition, 2000	, Wiley Inte	erscience, ISI	3N: 978-0-471-			
	utamulia, "Optic	cal Pattern Reco	gnition", Ca	mbridge Unv. I	Press, 1998,	ISBN -13: 97	8-0521465175			
· · ·	±.			on System						
	ays and hours of the decision of				Evaluation	s will be anno	ounced later,			

				WITH I	PROGRAM	M LEARN	ING OUT	COMES				
	COURSE LEARNING OUTCOMES RELATIONSHIP TABLE											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PC10	PC11	
INCR	5	5	5	5	4	4	4	5	5	4	4	
EASE												
1												
INCR	5	4	4	4	4	3	3	3	5	4	5	
EASE												
2												
INCR	5	5	5	4	5	3	3	3	3	3	3	
EASE												
3												
LO4	5	5	5	3	5	4	3	3	3	3	3	
L05	5	5	5	4	5	3	3	3	3	3	3	
	1	1	LO:	Learning	Outcomes	s OP: Prog	ram Outc	omes	1	1		
Contri bution Level	1 Very Low 2 Low		2 Low		3 Media	um	4 Higl	1	5 Vei	5 Very High		

Relation of Program	Outcomes and	Related Course
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pattern Recognition	5	5	5	4	5	3	4	4	3	4	3