

1.	Course	<i>Image and video processing and recognition</i>		
2.	Code	KNI_E26		
3.	Study programme	Computer Science and Engineering PhD study programme		
4.	Study programme organized by	FCSE		
5.	Cycle	Third – PhD		
6.	Academic year / semester winter/summer/elective	7. ECTS credits 7,5		
8.	Teacher	Prof. d-r Dragan Mihajlov		
9.	Prerequisites	None		
10.	Course programme goals (competences): The course offers advanced knowledge and research on digital image and video processing.			
11.	Course syllabus: Human visual system. Image and illusion perception. Color models. Texture models. Image modeling. Model relations. Noise models. Image restoration. Image recognition. Face recognition. Modeling 2D and 3D moving images. Video content recognition. Face recognition in video contents.			
12.	Teaching methods: Classes supported with slide presentations, interactive teaching, lab equipment and other software packages, teamwork, case studies, invited guest lecturers, presentations of project works, e-learning materials, forums and consultations.			
13.	Total fund of work hours	7,5 EKTC x 30 h = 225 h		
14.	Available hours distribution	45+30+150 = 225		
15.	Teaching activities	15.1.	Theoretical classes	45 h
		15.2.	Practical classes (labs, exercises), seminars, team work	30 h
16.	Other activities	16.1.	Project tasks	50 h
		16.2.	Self study	50 h
		16.3.	Homework	50 h
17.	Grading			
	17.1.	Tests		40 points
	17.2.	Seminar work/ project (presentation: written and oral)		50 points
	17.3.	Active participation		10 points
18.	Grading criteria (points/grade)		to 59 points	5 (five) (F)
			from 60 to 68 points	6 (six) (E)
			from 69 to 76 points	7 (seven) (D)
			from 77 to 84 points	8 (eight) (C)
			from 85 to 92 points	9 (nine) (B)
		from 93 to 100 points	10 (ten) (A)	

19.	Conditions for attending the final exam	Successful completion of activities 15.1 and 15.2				
20.	Language	Macedonian or English				
21.	Quality assessment	Internal evaluation and student pools				
22.	Literature					
	22.1.	Compulsory				
		No.	Author	Title	Publisher	Year
		1.	A.Bovik	Handbook of Image Video Processing	Academic Press	2000
		2.	R. Chellappa, A. K. Roy-Chowdhury, S. K. Zhou	Recognition of Humans and Their Activities Using Video	Morgan & Claypool Publishers	2005
	3.					
	22.2.	Additional				
		No.	Author	Title	Publisher	Year
		1.				
		2.				
3.						