		STUDY MODULE D			
	f the module/subject			ode 10803111010840200	
Field of	ge processing study		Profile of study (general academic, practical)	Year /Semester	
Com	munications Tec	chnologies	general academic	1/1	
Elective	e path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) elective	
Cycle o	f study:		Form of study (full-time,part-time)		
	Doctora	al studies	full-tin	ıe	
No. of h				No. of credits	
Lectu	Classes		Project/seminars:	2	
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another field	,	
		other	univers	sity-wide	
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
techr	nical sciences			2 100%	
	Technical scie	ences		2 100%	
tel. Fac	ail: domanski@et.put.p +48 0616653900 ulty of Electronics and Piotrowo 3A 60-965 Pc	Telecommunications			
		is of knowledge, skills an	d social competencies:		
1	Knowledge	He has in-depth knowledge of th for the provision of multimedia s	ne construction and operation of te ervices (K2_W01)	lecommunications systems	
2	Skills	systems, including the tasks cor 2 He can use optimization metho	Can analyze the effect of multimedia systems. Able to solve problems related to multimedia systems, including the tasks containing research component. (K2_U03) He can use optimization methods to solve problems encountered in electronics and		
3	Social		eir knowledge and skills, understar	nds the need for ongoing	
	competencies	education (K2_K04)			
The ai image	m of the course is to b analysis and processi	5	ent's doctoral student with the mos dicated to improving the quality of J.		
	-	mes and reference to the	educational results for a	field of study	
Knov	vledge:				
		anced techniques and multimedia ons [UD-W01, SD-W01, SD-W0	systems. For the latest scientific a 2]	chievements in the field of	
3. He I	has knowledge of the r	•	edia telecommunications - [SD-W Id covered and can prepare the pu	•	
Skills	SD-W05] S:				
		related to the latest developments	s in the field covered [SD-U01]		
2. Can	formulate hypotheses		he results of research and properl	y document the results of	
	al competencies:	•			
	•		e their knowledge - [UD-K01, UD-	K02, UD-K03]	
2. He s	-		al qualifications, is ready for the in		

	study outcomes			
1. Written or oral examinations or test questions.				
Course descr	iption			
Analysis of low-level content of images. Video Converters and impro images , distortion artifacts) .	ve image quality (restaurant ima	age, removing the noisy		
Advanced techniques for the analysis of high-level content of images characteristics of the image. SVM classification methods , neural net		rmination of the		
Basic bibliography:				
1. Marek Domański, Zaawansowane techniki kompresji obrazów i se Poznańskiej, 2000	kwencji wizyjnych, Wydawnictw	o Politechniki		
2. Domański M., Obraz cyfrowy, WKŁ, Warszawa 2010.				
3. ITU-R Rec., BT.500-1, Methodology for the subjective assessment	nt of the quality of television picto	ures, 2002.		
Result of average stud				
	ent's workload			
Activity	ent's workload	Time (working hours)		
	ent's workload			
Activity	ent's workload	hours)		
Activity 1. Activities requiring personal contact with an academic teacher		hours)		
Activity 1. Activities requiring personal contact with an academic teacher 2. Consultation content presented in class 3. The study of literature, preparation for classes and preparation for	credit courses / examination	hours)		
Activity 1. Activities requiring personal contact with an academic teacher 2. Consultation content presented in class 3. The study of literature, preparation for classes and preparation for control	credit courses / examination	hours)		
Activity 1. Activities requiring personal contact with an academic teacher 2. Consultation content presented in class 3. The study of literature, preparation for classes and preparation for control Student's wor	credit courses / examination	hours) 15 10 25		
Activity 1. Activities requiring personal contact with an academic teacher 2. Consultation content presented in class 3. The study of literature, preparation for classes and preparation for control Student's wor Source of workload	credit courses / examination kload hours	hours) 15 10 25 ECTS		