1.	Field of study	Computer Science
2.	Academic year of entry	2016/2017 (summer term)
3.	Level of qualifications/degree	second-cycle studies
4.	Degree profile	general academic
5.	Mode of study	full-time

Module: Video processing techniques

Module code: 08-IN-GWK-S2-TPV

1. Number of the ECTS credits: 3

Z. Learning of	tcomes of the module		
code	description	learning outcomes of the programme	level of competence (scale 1-5)
TPV -K_8	Can work in team of two and properly divides work.	K_2_A_I_K03	1
TPV -U_5	Can implement basic video processing algorithms.	K_2_A_I_U01	1
		K_2_A_I_U13	1
		K_2_A_I_U14	1
		K_2_A_I_U16	1
TPV -U_6	Can implement basic algorithms of video processing from infrared cameras.	K_2_A_I_U01	1
PV -U_6		K_2_A_I_U02	1
		K_2_A_I_U03	1
		K_2_A_I_U04	1
		K_2_A_I_U13	1
		K_2_A_I_U14	1
		K_2_A_I_U16	1
TPV -U_7	Can give a presentation of the executed project.	K_2_A_I_U04	1
TPV -W_1	Has basic knowledge about OpenCV library use.	K_2_A_I_W03	1
		K_2_A_I_W15	1
		K_2_A_I_W16	1
TPV -W_2	Has basic knowledge about video encoding standards.	K_2_A_I_W15	1
		K_2_A_I_W16	1

TPV -W_3	Has basic knowledge about lossy and losless compression.	K_2_A_I_W15	1
		K_2_A_I_W16	1
TPV -W_4	Has basic knowledge in the field of video processing, such as filtration, movement detection, object detection.	K_2_A_I_W15	1
		K_2_A_I_W16	1

3. Module description	
Description	Module allows the student to acquire skill of programming basic video processing algorithms.
Prerequisites	

4. Assessment of the learning outcomes of the module				
code	type	description	learning outcomes of the module	
TPV _w_1	Exam		TPV -W_1, TPV -W_2, TPV - W_3, TPV -W_4	
TPV _w_2	Tests		TPV -U_5, TPV -U_6, TPV - W_1, TPV -W_2, TPV -W_3, TPV -W_4	
TPV _w_3	Project		TPV -K_8, TPV -U_5, TPV - U_6	
TPV _w_4	Presentation	Presenting the project.	TPV -K_8, TPV -U_7	

5. Forms of teaching							
	form of teaching		required hours of student's own work		assessment of the		
code	type	description (including teaching methods)	number of hours	description	number of hours	learning outcomes of the module	
TPV _fs_1	lecture	Presenting educational content with use of audio-visual aids.	15	Individual studying of lectures subject matter and advised literature.	5	TPV _w_1	
TPV _fs_2	laboratory classes	Computer classes focusing on video processing algorithms implementation.		Individual preparation for laboratory classes . Familiarizing with project subject matter and project execution individually or in teams of two. Preparing description presenting project subject matter.	25	TPV _w_2, TPV _w_3, TPV _w_4	

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