1.	**Field of study**	**Computer Science**
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2021/2022 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

Module: Image and video processing techniques

Module code: W4-INA-S2-20-F-TPOiV

1. Number of the ECTS credits: 4

2. Learning outcomes of the module

code	description	learning outcomes of the programme	level of competence (scale 1-5)
M_001	The student knows image and video processing.	K_W01 K_W02	1 1
M_002	The student can implement selected algorithms in image and video processing.	K_U01 K_U02 K_U03 K_U04 K_U06 K_U09	1 1 1 1 1 1
M_003	The student can assess and compare the effectiveness of various algorithms for a problem.	K_K01 K_U01 K_U06	1 2 2

3. Module description

Description	The purpose of the module is to introduce the students to modern image and video processing techniques and compression standards.
Prerequisites	

4. Assessment of the learning outcomes of the module			
code	**type**	**description**	**learning outcomes of the module**
W_001	Written exam	The test is a means of knowledge verification based on the content presented in the lecture. The exam comprises open-ended theoretical questions.	M_001, M_003
W_002	Classes credit	The students present the implementation of the algorithms from the classes and the one individual implementation.	M_002, M_003

5. Forms of teaching						
code	**form of teaching**			**required hours of student's own work**		**assessment of the learning outcomes of the module**
	type	**description (including teaching methods)**	**number of hours**	**description**	**number of hours**	
Z_001	lecture	Transferring the content of education in verbal (or e-learning) form using audiovisual and other teaching aids.	15	The students prepare for the exam.	15	W_001
Z_002	laboratory classes	The classes prepare the students to individual implementation of selected algorithms.	30	The students implement selected algorithms in the programming language of choice.	60	W_002