1.	Field of study	Music in Multimedia
2.	Faculty	Faculty of Fine Arts and Educational Science
3.	Academic year of entry	2025/2026 (winter term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	practical
6.	Mode of study	full-time

7.	General information about the module	
Module name		Creative Code and Algorithm in Art
Module code		W6-DigiCrea-MM-CC
Number of the ECTS credits		5
Language of instruction		English
Purpose and description of the content of education		The "Creative Code and Algorithm in Art" module introduces students to the practical and theoretical aspects of using coding and algorithms in creative processes. The workshop format lets participants explore modern tools and programming languages applied to visual arts. Students will develop their skills in generating images, animations, and interactive applications, experimenting with generative art and visual data processing techniques. The module emphasizes a creative approach to technology, encouraging participants to create their artistic projects using code. As part of their independent work, students will have the opportunity to develop their projects with guidance from the instructor. The module's program is flexible, allowing adaptation to the individual interests and specializations of the students.
List of modules that must be completed before starting this module (if necessary)		not applicable

8.	Learning outcomes of the module			
Code	Description		Learning outcomes of the programme	Level of competenc (scale 1-5)
IMG-S2-CC_1	The student knows the concepts and techniques for using coding and algorithms in creative processes.		W6-MM-S2-W01	3
			W6-MM-S2-W02	4
			W6-MM-S2-W05	5
IMG-S2-CC_2	The student creates generative images and animations using programming tools.		W6-MM-S2-U01	3
			W6-MM-S2-U03	5
			W6-MM-S2-U04	4
IMG-S2-CC_3	The student develops interactive artistic applications using visual algorithms.		W6-MM-S2-U01	1
			W6-MM-S2-U03	4
			W6-MM-S2-U04	5
IMG-S2-CC_4	The student analyzes and processes visual data to create artistic projects.		W6-MM-S2-U01	3
			W6-MM-S2-U03	5
			W6-MM-S2-U04	4

IMG-S2-CC_5	The student collaborates within a team on artistic projects, sharing knowledge and skills.	W6-MM-S2-K02	3
		W6-MM-S2-K03	4
		W6-MM-S2-K06	5
IMG-S2-CC_6	The student demonstrates openness to experimenting with new technologies in an artistic context.	W6-MM-S2-K03	4
		W6-MM-S2-K05	3
		W6-MM-S2-K07	5

9.	Methods of conducting classes		
Code	**Category**		**Name (description)**
b08	Problem-solving methods		Activating method – peer learning *learning through the exchange of knowledge in a group/team/pair of students, i.e., in the so-called learning cell; a kind of mutual learning; an approach focused on student activity under the guidance of the person teaching the course; a learning situation where students with a similar level of experience learn from one another*
b09	Problem-solving methods		Activating method – flipped classroom *anticipatory learning; work in class is based on previously studied material indicated by the person teaching the course; preparation outside the classroom serves the purpose of getting familiar with the issues whose knowledge is necessary for participating in the in-class discussion and the training in the related practical skills; the activity is based on the work of students under the guidance of the person teaching the course*
c06	Demonstration methods		Demonstration-imitation *a presentation of a model way of performing specific activities accompanied by a commentary; it aims at triggering imitation activities in an individual or in a group of participants observing the activities of the person teaching the course until the right habit is formed through regular exercise; the demonstration-imitation method is combined with a physical practice of activities/behaviours*
d01	Programmed learning methods		Working with a computer *e.g., Webquest; implementation of educational tasks using electronic and digital devices, computer programs and Internet applications; the academic teacher acts as a consultant; students' work is carried out step by step according to the plan laid own by the person teaching the course and following his instructions, and proceeds towards producing the indicated results within the set deadline*

10.	Forms of teaching					
Code	**Name**		**Number of hours**	**Assessment of the learning outcomes of the module**	**Learning outcomes of the module**	**Methods of conducting classes**
Wr_CC	workshop		42	exam	IMG-S2-CC_1, IMG-S2-CC_2, IMG-S2-CC_3, IMG-S2-CC_4, IMG-S2-CC_5, IMG-S2-CC_6	b08, b09, c06, d01

11.	The student's work, apart from participation in classes, includes in particular:		
Code	**Category**	**Name (description)**	**Is it part of the BUNA?**
a02	Preparation for classes	Literature reading / analysis of source materials *reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class*	No
a03	Preparation for classes	Developing practical skills	No

		activities involving the repetition, refinement and consolidation of practical skills, including those developed during previous classes or new skills necessary for the implementation of subsequent elements of the curriculum (as preparation for class participation)	
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion *a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course*	Yes
d01	Consulting the results of the verification of learning outcomes	Analysis of the corrective feedback provided by the academic teacher on the results of the verification of learning outcomes *reading through the academic teacher's comments, assessments and opinions on the implementation of the task aimed at checking the level of the achieved learning outcomes*	Yes

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: https://usosweb.us.edu.pl.