

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	e module	
Мос	lule name	Gesture capture	
Moc	lule code	W6-DigiCrea-MM-GC	
Nun	nber of the ECTS credits	2	
Lan	guage of instruction	English	
		Dpisy Dpis: Moduł "Gesture capture" wprowadza studentów w tematykę przechwytywania i analizy ludzkich gestów w kontekście interakcji z computerami oraz systemami wirtualnej i rozszerzonej rzeczywistości. Uczestnicy zapoznają się z różnymi metodami rejestrowania gestów, akimi jak technologia optyczna, czujniki ruchu oraz systemy śledzenia 3D. Podczas zajęć studenci będą mieli okazję nauczyć się, jak rrzetwarzać dane z tych technologii oraz wykorzystywać je w aplikacjach interaktywnych. Kurs obejmuje również zagadnienia związane z ozpoznawaniem gestów i ich zastosowaniem w projektowaniu gier komputerowych, filmów animowanych oraz systemów VR/AR. W ramach rajęć uczestnicy będą realizować ćwiczenia praktyczne, które pozwolą im zdobyć umiejętności w zakresie integracji technologii rejestracji pestów w różnych środowiskach interaktywnych. Moduł ma na celu rozwój kompetencji związanych z nowoczesnymi metodami tworzenia nterfejsów użytkownika i wprowadzania innowacji w dziedzinie interakcji człowiek-komputer. Dpis (angielski): The "Gesture Capture" module introduces students to capturing and analyzing human gestures in the context of human- computer interaction and virtual/augmented reality systems. Participants will learn about various gesture capture techniques, including optical echnologies in interactive applications. The course also covers gesture recognition and its applications in designing video games, animated ilms, and VR/AR systems. Practical exercises will provide students hands-on experience integrating gesture capture technology into various nteractive environments. This module aims to develop skills related to modern methods of creating user interfaces and introducing innovations in tuman-computer interaction.	
com	of modules that must be pleted before starting this lule (if necessary)	not applicable	

8. Learning	Learning outcomes of the module					
Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)			
S2-GC_1	The student knows various gesture capture technologies, such as motion sensors, optical technology, and 3D tracking	W6-MM-S2-W01	3			
	systems, used in interactions with computers and VR/AR systems.	W6-MM-S2-W05	4			
S2-GC_2	The student can process and implement data from gesture capture technologies in interactive applications, such as	W6-MM-S2-U03	3			
	video games and VR/AR systems.	W6-MM-S2-U04	5			



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S2-GC_3	The student can collaborate in a group, sharing knowledge and skills to integrate gesture technologies into interactive	W6-MM-S2-K03	3
	and creative projects.	W6-MM-S2-K06	5
		W6-MM-S2-K07	4

9. Methods of	Methods of conducting classes				
Code	Category	Name (description)			
a03	Lecture methods / expository methods	Description a description of objects, phenomena, processes or people; it involves specifying the structure and characteristic features of the object, phenomenon, or process being described; it is usually accompanied by a demonstration of the described object or by its models, drawings, tables, charts, etc.; a description may take the form of an explanation, classification, justification or comparison			
b03	Problem-solving methods	Activating method – educational games learning content in the guise of a rule- and/or principle-based game; conducted in a deliberately arranged situation based on the description of relevant facts and processes; learners compete with one another within the framework of rules laid down by the academic teacher; varieties include simulation games – involving a simulation of real situations; decision games – based on the decision-making process and the recognition of the consequences of the decisions made (e.g., a decision tree); psychological games – increasing the emotional-volitional component of the participants' attitudes			
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			

10. Forms of teaching							
Code	Name	Number of hours	3	Learning outcomes of the module	Methods of conducting classes		
C_GC	practical classes	18	course work	S2-GC_1, S2-GC_2, S2-GC_3	a03, b03, b09,	c06	
11. The student's	11. The student's work, apart from participation in classes, includes in particular:						
Code	Category		Name (description)		Is it part of the BUNA?		
a01	Preparation for classes	review	Search for materials and review activities necessary for class participation reviewing literature, documentation, tools and materials as well as the specifics of the syllabus and the range of activities indicated in it as required for full participation in classes			No	
a03 Preparation for classes			Developing practical skills 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)			Yes	
a04	Preparation for classes	Consu	Consulting materials complementary to those indicated in the syllabus		Yes		



	agreeing on materials complementary to those indicated in the syllabus, supporting the implementation of tasks resulting from or necessary for class participation	
c03	 Implementation of an individual or group assignment necessary for course/phase/ examination completion	Yes
	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	

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