

## Subject card

Subject name and code	Mobile multimedia technologies, PG_00047763							
Field of study	Informatics							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027		
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Geoinformatics -> Faculty of Electronics Telecommunications and Informatics -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor		dr inż. Przemy	ki-Gilski				
of lecturer (lecturers)	Teachers		dr inż. Przemysław Falkowski-Gilsk					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	Number of study hours	12.0	0.0	9.0	6.0		0.0	27
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM	
	Number of study hours 27		10.0		63.0		100	
Subject objectives	The goal of the subject is to familiarize the students with technologies applicable to mobile multimedia application development.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_W02] knows and understands, to an increased extent, selected laws of physics and physical phenomena, as well as methods and theories explaining the complex relationships between them, constituting advanced general knowledge in the field of technical sciences related to the field of study		Students are able to properly design and implement appropriate algorithms.			[SW2] Assessment of knowledge contained in presentation		
	[K7_W03] knows and understands, to an increased extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum		Students are able to choose appropriate methods, tools, as well as hardware and software layer, depending on the specificity of the analyzed problem.			[SW3] Assessment of knowledge contained in written work and projects		

Data wygenerowania: 20.06.2025 00:22 Strona 1 z 2

	1. Multimedia on mobile devices.							
Subject contents								
	2. Video processing on mobile devices.							
	2. Tidde proceeding on mobile devices.							
	2 Mahila gamas							
	3. Mobile games.							
	4. Unity3D environment							
	IF Open CL FS							
	5. Open GL ES							
	6. Augmented Reality							
Prerequisites	Object-oriented programming.							
and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Written Exam	50.0%	40.0%					
	Project	50.0%	60.0%					
Recommended reading	Basic literature	A. Munshi, D. Ginsburg, D. Shreiner: OpenGL ES 2.0 Programming Guide, Addison-Wesley, 2010.						
		Wright R. S., Haemel N., Sellers G., Lipchak B., "OpenGL SuperBible", Addison-Wesley, 2010.  Hellman E., "Platforma Android – Nowe wyzwania", Helion, 2014.						
	Supplementary literature	C. Morales, D. Nelson: Mobile 3D Game Development: From Start to						
		Market;Charles River Media, 2007						
	eResources addresses							
Example issues/								
example questions/								
tasks being completed	Niet aus Bashia							
Work placement	Not applicable							

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Data wygenerowania: 20.06.2025 00:22 Strona 2 z 2