

Subject card

Subject name and code	Multimedia Technology, PG_00047919								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish	Polish		
Semester of study	4		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Multimedia Systems -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr inż. Piotr Odya						
of lecturer (lecturers)	Teachers	dr inż. Piotr Odya							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	_aboratory Project Seminar SI		SUM		
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study SUM		SUM	
	Number of study 45 hours		3.0		27.0 75		75		
Subject objectives	The aim is to familiarize students with the multimedia data procesing and transmission.								
Learning outcomes	Course out	come	Subject outcome				Method of verification		
	[K6_W03] knows and understands, to an a extent, the construct operating principles components and systo the field of study, it heories, methods ar relationships betwee selected specific issuappropriate for the circumstants.	for multimodal interfaces.			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects				
Subject contents	 Introduction. History of multimedia communication development. Multimedia content types and elements. Computer graphics fundamentals raster and vector images Audio, video, and multimedia content formats Fundamentals of audio, image & video compression Multimedia transport protocols. Multimedia services. Multimedia content distribution. Multimedia studio and broadcasting center. Multimedia databases. Querying, navigating, browsing of multimedia database content Image rendering Animation of computer graphic Multimodal interfaces Stereoscopy, holography, Virtual Reality Future development trends. Lecture recapitulation and students' progress checking 								
Prerequisites and co-requisites	No requirements								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Per	Percentage of the final grade		
	Practical exercise					50.0%	50.0%		
	Final test	51.0%			50.0%				

Recommended reading	Basic literature	Alicja Wieczorkowska: Multimedia. Podstawy teoretyczne i zastosowania praktyczne., PJWSTK, ISBN: 978-83-89244-67-3, 2008, Kategorie: Informatyka, Multimedia, 336 stron Anna Korzyńska, Małgorzata Przytulska: Przetwarzanie obrazów. Ćwiczenia., PJWSTK, 2006, ISBN: 978-83-89244-37-6, Kategorie: Informatyka, Multimedia, Zawiera CD, 110 stron Andrzej Czyżewski: Dźwięk cyfrowy. Wybrane zagadnienia teoretyczne, technologia, zastosowania., Exit, 2001, ISBN: 978-83-87674-08-3, Kategorie: Informatyka, Multimedia, Dźwięk cyfrowy, 552 strony, format B5 Jean-Philippe Thiran, Ferran Marques, Harve Boulard, Multimodal Signal Processing, Academic Press, 2010. Nigel Chapman, Jenny Chapman, Digital Multimedia, Wiley, 2009. Parag Havaldar, Gerard Medioni, Multimedia Systems, Course Technology, 2010.
	Supplementary literature	No requirements
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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