

## Subject card

Subject name and code	Recording and Compression of Audio-video Signals, PG_00048138								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2027/2028			
Education level	first-cycle studies		Subject group			Optional subject group 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	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Multimedia Systems -> Faculty of Electronics, Telecommunications and Informatics					tics			
Name and surname	Subject supervisor		dr inż. Piotr Odya						
of lecturer (lecturers)	Teachers		dr inż. Piotr Odya						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	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-st	udy	SUM	
	Number of study hours	30		3.0		42.0		75	
Subject objectives	Familiarize student with the issues of video and audio recording and the use of typical studio equipment.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W35] Knows the concepts of the technique of signal transmission, operation of telecommunications networks and multimedia services and the rules for providing them		Student chooses the type of studio devices interface depending on the needs.			[SW1] Assessment of factual knowledge			
	[K6_W03] Knows and understands, to an advanced 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		The student chooses the type of studio equipment for voice recordings. The student chooses the type of video equipment for video recording.			[SW1] Assessment of factual knowledge			
	[K6_W05] Knows and understands, to an advanced extent, methods of supporting processes and functions, specific to the field of study		The student uses computer tools for editing sound and movie.			[SW1] Assessment of factual knowledge			
	[K6_U05] can plan and conduct experiments related to the field of study, including computer simulations and measurements; interpret obtained results and draw conclusions		Student prepares a studio for sound and / or video recordings.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[K6_U07] can apply methods of process and function support, specific to the field of study		Student configures audio and video recording equipment depending on the needs.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			

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Subject contents	<ol> <li>Introduction</li> <li>Fundamentals of the digital signal recording techniques</li> <li>Classification of the basic methods for sound and image recording and processing</li> <li>Magnetic recording</li> <li>Magnetooptical recording</li> <li>Overview of video converters</li> <li>Lenses, camcorders and digital photo-cameras</li> <li>Video capture cards constructions and types</li> <li>Video capture cards constructions and types</li> <li>Studio audio devices (tape recorders, mix-consoles, hard disc recorders, effects and dynamics processors, synthetizers)</li> <li>Studio video devices (VCRs, video consoles, hard disc video recorders)</li> <li>Synchronization of audio-video devices</li> <li>Audio and video formats</li> <li>Test</li> </ol>					
Prerequisites and co-requisites	No requirements					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Practical exercise	51.0%	50.0%			
	Exam	51.0%	50.0%			
Recommended reading	Basic literature	tal Television, Wiley, 2007. Digital Compositing, Morgan  cimedia, Wiley, 2009. Dient Handbook, Hal Leonard, Diens, Addison-Wesley, 2001. Diens, Course Technology, Diens, Course Technology, Diens, Course Technology, Diens, 2005. Diens, 2006. Diens, 2000.				
	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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