

Subject card

Subject name and code	Recording Technology II, PG_00048330							
Field of study	Electronics and Telecommunications							
Date of commencement of studies	February 2024		Academic year of realisation of subject			2024/2025		
Education level	second-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	1		Language of instruction			English		
Semester of study	2		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form		exam			
Conducting unit	Department of Multimedia Systems -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Bożena Kostek					
	Teachers		prof. dr hab. inż. Bożena Kostek					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project Se		Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	15.0		45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		6.0		24.0		75
Subject objectives	The aim of the course is to familiarize students with the advanced issues of recording technology, teach them to combine knowledge of high-tech recording equipment with artistic skills at the recording studio (multitrack recording).							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
Loanning outcomos	[K7_U07] can apply advanced	The student can professionally	[SU2] Assessment of ability to				
	methods of process and function support, specific to the field of study	prepare audio-video production.	analyse information				
	[K7_W05] Knows and understands, to an increased extent, methods of process and function support, specific to the field of study.	Student can use computer-based sound recordings and editing platform (track mixing, digital editing)	[SW1] Assessment of factual knowledge				
	[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.	Student is able to prepare mastering of a music file	[SW1] Assessment of factual knowledge				
	[K7_U09] can carry out a critical analysis of the functioning of existing technical solutions and assess these solutions, as well as apply experience related to the maintenance of advanced technical systems, devices and facilities typical for the field of studies, gained in the professional engineering environment	Student is able to realize multi- track recordings and recordings in omni-directional systems.	[SU3] Assessment of ability to use knowledge gained from the subject				
	[K7_U03] can design, according to required specifications, and make a complex device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment	Student is able to realize live recordings (student can use microphones and video mixer and setup cameras)	[SU4] Assessment of ability to use methods and tools				
Subject contents	1. Introduction. References. 2. Microphone techniques, surround techniques. 3. Multichannel stereophonic recordings 4. Multichannel stereophonic systems 5. Multitrack recordings (acoustical climate selection, dynamic processing, equalization, delays and reverb setting) 6. Computer technique in a traditional sound recording studio (digital controlling, modern ideas of console automation, computer as a sound processor, overview of the newest solutions in computer multitrack recording and editing systems) 7. Making the surround sound (sound sources setup, using mix-console) 8. Making of the surround sound (using computer equipped with multi-channel audiocard) 9. Computer-based sound recordings (track mixing, digital editing) 10. Music production based on MIDI (hardware and software sequencer, sequences editing and playback) 12. Live coverage (microphones and cameras setup, using video mixer) 13. Postsynchronization 14. Dubbing (equipment, creating principles) 15. Using Internet and ISDN in the recording studio 16. Test, final exam						
Prerequisites and co-requisites	No requirements						
Assessment methods	Cubicat passing setteria	Deseive with week and	Developed of the final analy				
and criteria	Subject passing criteria Written exam	Passing threshold 50.0%	Percentage of the final grade 50.0%				
	Practical exercise	50.0%	50.0%				
Recommended reading	Basic literature	K. Blair Benson, Sound Engineering Handbook, McGraw Hill, New York 1988; J. Eargle, Sound Recording, Van Nostrand, New York 1976. L. Hanzo, P. Cherriman, J. Streit, Video Compression and Communications, IEEE Press, 2007. S. Price, Digital Audio Editors, Studio Sound, March 1989. H.D. Miles, Audio Production Techniques for Video, H.W. Sams & Co. Indianapolis, IN, USA, 1989. P. May, Digital Video Handbook, A Comprehensive Guide to Making Videos that Make Money, RotoVision, 2004. H. Wyatt, T. Amyes, Audio Post Production for Television and Film, Focal Press, Amsterdam, 2005. J. Rose, Audio Postproduction for Digital Video, CMPBooks, San Francisco, 2002. T. Holman, Surround Sound Up and Running, Focal Press, Amsterdam, 2008. J. Watkinson, the Art of Digital Video, Focal Press, 2000.					
	Supplementary literature	No requirements					
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable	Not applicable					

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