

Subject card

Subject name and code	Video and Audio Perception - Laboratory, PG_00048796							
Field of study	Electronics and Telecommunications							
Date of commencement of	February 2023		Academic year of			2023/2024		
studies			realisation of subject					
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			Polish		
Semester of study	2		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
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					
			mgr inż. Wanda Ludwikowska					
			dr hab. inż. Józef Kotus					
			di Hab. IIIZ. JOZGI NOLUS					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	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-study		SUM
	Number of study hours	30		4.0		16.0		50
Subject objectives	The aim of the course is to familiarize students with the issues underlying the perception of sound and image, as well as methods of hearing and sight.							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	, ,		Student chooses a type of eye or hearing test depending on the needs. Student proposes new solutions for people with hearing and vision impairments.			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	K7_K02		The student analyzes the results and suggets ways to improve the used methods			[SK5] Assessment of ability to solve problems that arise in practice		
	[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		The student conducts audiometric and optometric tests. The student assesses the stereoscopic vision. The student conducts tests in the field of visual and auditory correlation.		[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[K7_U07] can apply advanced methods of process and function support, specific to the field of study		Student uses devices and software designed to conduct audiometric and optometric tests.			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		

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Subject contents	Introduction – Organizatory Meeting							
	Audiometric Tests – Air Conduction							
	3. Audiometric Tests – Bone Conduction							
	4. Free Field Audiometry							
	5. "I Can See" - Computer-Based Eye Measurements							
	6. Loudness Scaling Tests							
	7. Testing Hearing Employing "I Can Hear" System 8. Examination of Audio-Visual Correlation 9. Auditory Tests - Part I 10. Auditory Tests - Part II 11. Lateralization Tests 12. Vision Tests 13. Perception of stereoscopic vision							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade					
and criteria	Practical exercise	51.0%	100.0%					
Recommended reading	Basic literature	Gelfand S.A., Essentials of Audiology, Theme, New York 1998. R. Gawroński, Bionika. System nerwowy jako układ sterowania, PWN, Warszawa, 1970. Chalupa L. M., Werner J. S., The Visual neurosciences, Chapter 87 Stereopsis (Schor C. M.), 1300-1312, The MIT Press, Cambridge, MA, 2004. Hojan E., Akustyka aparatów słuchowych, Wyd. Naukowe Uniwersytetu im. A. Mickiewicza, Poznań 1997. J. Renowski, Laboratorium akustyki psychofizjologicznej, skrypt, Wrocław, 1972. T. Bystrzanowska, Audiologia kliniczna, PZWL, Warszawa, 1973. Chalupa L. M., Werner J. S., The Visual Neurosciences, Chapter 86 The perceptual organization of depth (Fleming R., Anderson B. L.), 1284-1299, The MIT Press, Cambridge, MA, 2004. J. Blauert, Raumliches Horen, Hirzel, Stuttgart, 1974. A. Czyżewski, B. Kostek, H. Skarżyński, Technika komputerowa w audiologii, foniatrii i logopedii, Akademicka Oficyna Wydawnicza, 2002. E. Walsh, Fizjologia układu nerwowego, PZWL, Warszawa, 1966. J.V. Tobias, Foundations of Modern Auditory Theory, Academic Press, New York, 1972. G.V. Bekesy, Experiments in Hearing, Mc Grow-Hill, New York, 1960.						
	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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