

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

Subject name and code	Video and Audio Perception - Laboratory, PG_00048796								
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			Polish	Polish		
Semester of study	2		ECTS credits			2.0	2.0		
Learning profile	general academic profile		Assessment form			asses	assessment		
Conducting unit	Department of Multimedia Systems -> Faculty of Electronics, Telecommunications and Informatics					natics			
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	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 ir classes includ plan				Self-study SUM		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			
	[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.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[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.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	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			
			Student chooses a type of eye or hearing test depending on the needs. Student proposes new solutions for people with hearing and vision impairments.			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools			

Subject contents	1. Introduction – Organizatory Meeting							
oubject contents								
	2 Audiometrie Teste Air Conduct							
	 Audiometric Tests – Air Conduction 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. No requirements						
	Supplementary literature eResources addresses							
Example issues/ example questions/ tasks being completed	ולביירבייסטוריביי מעטוביצאלא	Adresy na platformie eNauczanie:						
Work placement	Not applicable							
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