



Subject card

Subject name and code	Telecommunication Signals - laboratory, PG_00048137						
Field of study	Electronics and Telecommunications						
Date of commencement of studies	October 2025		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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Radiocommunication Systems And Networks -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jarosław Sadowski				
	Teachers		dr hab. inż. Jarosław Sadowski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	Practical students acquaint with the characteristics of the signals that occur in the communication system.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
Subject contents	1. Investigation of Delta Modulated Signals with Syllabic Adaptation 2. Measurement of Static Characteristics of PCM Encoding. 3. Measurement of Dynamic Characteristics of PCM Encoding 4. Investigation of DPCM Encoding 5. Investigation of PSK and DPSK Signals 6. Investigation of Single Side Band Modulated Signals 7. Investigation of Balanced Mixer						
Prerequisites and co-requisites	No requirements						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Practical exercise		50.0%		90.0%		
	Activity		0.0%		10.0%		
Recommended reading	Basic literature		Haykin S.: Systemy telekomunikacyjne, tom 1 i 2. WKiŁ 2004 r. (lub wydania wcześniejsze)				
	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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