



## Subject card

Subject name and code	Telecommunication Signals - laboratory, PG_00048137						
Field of study	Electronics and Telecommunications						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
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 -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Jarosław Sadowski					
	Teachers	dr hab. inż. Jarosław Sadowski					
Lesson types	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	Course content – laboratory 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				
	Activity	0.0%	10.0%				
	Practical exercise	50.0%	90.0%				
Recommended reading	Basic literature	Haykin S.: Systemy telekomunikacyjne, tom 1 i 2. WKiŁ. 2004 r. (lub wydania wcześniejsze)					
	Supplementary literature	No requirements					

	eResources addresses	
Example issues/ example questions/ tasks being completed		
Practical activities within the subject	Not applicable	

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