

Subject card

Subject name and code	Circuits and Signals - laboratory, PG_00048807							
Field of study	Electronics and Telecommunications							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027		
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study 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	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			1.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department Of Signals And Systems -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor	dr inż. Kamil Stawiarski						
of lecturer (lecturers)	Teachers	dr inż. Kamil Stawiarski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	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 classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	15		1.0		9.0		25
Subject objectives	Equipping a student with knowledge and skills acquired in studying the basics of analogue circuits and signals. The knowledge is sought to be useful in further professional studies and practice.							
Learning outcomes	Course out	Subject outcome			Method of verification			
	[K6_U03] can design required specification a simple device, facil carry out a process, sield of study, using simethods, techniques materials, following estandards and norms technologies specific study and experience the professional engienvironment	the analysis of circuits stimulated by periodic waveforms, -			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
Subject contents	Periodic signal spectrum. Spectrum modification by passing a periodic signal through a linear and nonlinear circuit. Transmission line. Attenuator. Resonant circuit. Nonlinear cuircuit. Passive lowpass Butterworth, Chebyshev and Bessell filters, and active filters. Time-domain and frequency domain characteristics.							
Prerequisites and co-requisites	No requirements							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	Midterm short tests		+			40.0%		
	Reports		51.0%			60.0%		
Recommended reading	Basic literature		J. Osiowski i J. Szabatin: Podstawy teorii obwodów, tomy I-III. WNT Warszawa 1993 (tom I i tom II) i 1995 (tom III) i wydania kolejne.					
	Supplementary literature		No requirements					

Data wygenerowania: 24.04.2025 17:29 Strona 1 z 2

	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 24.04.2025 17:29 Strona 2 z 2