

Subject card

Subject name and code	Monographic Lectures of Wireless Technologies, PG_00048671								
Field of study	Electronics and Telecommunications								
Date of commencement of	February 2024 Academic year of 2024/2025								
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	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Microwave and Antenna Engineering -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname	Subject supervisor		prof. dr hab. inż. Michał Mrozowski						
of lecturer (lecturers)	Teachers		prof. dr hab. inż. Michał Mrozowski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in d classes included plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		2.0		33.0		50	
Subject objectives	The aim of the course is to familiarize students with various aspects of the use and deployment of wireless technologies and electronic devices used in these technologies.								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K7_W04] Knows and understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices		A student is aware of the problems related to numerical modeling of microwave filters and methods of their implementation in the available tools for their professional design			[SW1] Assessment of factual knowledge			
	[K7_W06] Knows and understands, to an increased extent, the basic processes taking place in the life cycle of devices, facilities and technical systems. [K7_W03] Knows and understands, to an increased		the problems associated with the implementation of microwave filters in available technologies Knows the theory of microwave filters, and their mathematical and			[SW1] Assessment of factual knowledge [SW1] Assessment of factual knowledge			
	extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum.		circuit models.						

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Subject contents	Lecture whose contents varies each year - lectures may be delivered by invited speakers (including foreign), practitioners from industry - the course can be monothematic, delivered by one lecturer or divided into blocks (delivered by several lecturers) In 2020 the topic is microwave filters and the course is given in English by a visiting professor. Roberto Gomez-Garcia						
	Module 0: Introduction to Microwave Filters - Module I: Basic Definitions and Responses - Module II: Basic Synthesis Techniques - Module III: Impedance Scaling and Frequency Mappings - Module IV: Microwave Resonators: Basic Technology Options - Module V: Transmission-Line-Based Bandpass Filter Design - Module VI: Introduction to Signal-Interference Filtering						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Final test	50.0%	50.0%				
	Participation	66.0%	50.0%				
Recommended reading	Basic literature	Students are given handouts prepared by the lecturer					
	Supplementary literature	olementary literature Not defined					
	eResources addresses	addresses Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	nie definiuje się	1					
Work placement	Not applicable						

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