

Subject card

Subject name and code	Radio Communication Systems - project, PG_00048134								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026			
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 Algorit Informatics	ms Modelling -> Faculty of Electronics, Telecommunications and							
Name and surname	Subject supervisor		dr inż. Andrzej Marczak						
of lecturer (lecturers)	Teachers		dr inż. Andrzej Marczak						
Lesson types and methods	Lesson type	Lecture	Tutorial	orial Laboratory Project		:t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	+ ' +		0.0	15	
	E-learning hours inclu	uded: 0.0	ded: 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	Designing the network of the digital radio communication system								
Learning outcomes	Course outcome Subject outcome Method of verification								
	[K6_W35] Knows the concepts of the technique of signal transmission, operation of telecommunications networks and multimedia services and the rules for providing them		The student knows the techniques of signal transmission used in digital cellular systems and the operation of such systems.			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U31] can identify telecommunications network architectures, differentiates their areas and functional elements, evaluates the quality of service delivery, calculates parameters of functional elements					[SU1] Assessment of task fulfilment			
	assess possessed ki acknowledge the imp knowledge in solving	assess possessed knowledge and acknowledge the importance of					[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	Calculate the area of a single hexagonal cell. Calculate the number of cells in a certain area. Calculating the number of channels per single cell. Determination of the number of channels in the radio communication system. Determination the total traffic that can be supported by a single cell based on Erlang table. Determination of the number of subscribers that can be supported in the analyzed system bundle cells. Calculation of the capacity of the system.								
Prerequisites and co-requisites	No requirements								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Project		51.0%			100.0%	100.0%		
Recommended reading			R. Zienkiewicz Telefony komórkowe GSM i DCS WKŁ Warszawa						
	Supplementary literature		No requireme	nts					

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

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