

## Subject card

Subject name and code	Systems of Geographical Information in Electrical Power Engineering, PG_00050041								
Field of study	Electrical Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group						
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Electr	ical Power Eng	ineering -> Faculty of Electrical and Control Engineering						
Name and surname	Subject supervisor		dr inż. Andrzej Augusiak						
of lecturer (lecturers)	Teachers		dr inż. Andrzej Augusiak						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Proje		Projec	t	Seminar	SUM	
	Number of study hours	5.0	0.0	0.0	10.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes including plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	r of study 15		1.0		9.0		25	
Subject objectives	Learning the methods and tools used in geographical information systems in power engineering.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	K7_K02								
	K7_K03		problem within the project subgroup and correctly use it to solve the overall task of the group.			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice			
	K7_W08								
	K7_U11								
	K7_U09		Student is able to accomplish a simple project in the field of geographic information systems GIS. During the implementation of the GIS project, student can use the methods and tools used in GIS systems. When creating elements of the GIS project, the student can apply technical knowledge from other education modules.			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	K7_W12								
	K7_W03		Student is able to properly describe the components of GIS systems and discuss their use in energy companies.			[SW1] Assessment of factual knowledge			
Subject contents	The map - history an similarities and differ graphical and data at presentation in GIS, application in power	ences, GIS - de ttributes, metho constructing SC	efinitions and co ds of storing da QL queries and	omponents, ras ata in GIS, data	ter and abase sy	vector r	maps, objects in GIS, metho	on maps - ds of data	

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Prerequisites and co-requisites					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Rating of final project	50.0%	100.0%		
Recommended reading	Basic literature	<ol> <li>Bielecka E.: Systemy Informacji Geograficznej - teoria i zastosowania. Wydawnictwo PJWSTK, Warszawa 2006.</li> <li>Myrda G., Litwin L.: Systemy Informacji Geograficznej. Zarządzanie danymi przestrzennymi w GIS, SIP, SIT, LIS. wydawnictwo Helion, Gliwice 2005.</li> </ol>			
	Supplementary literature QGIS system documentation. http://www.qgis.org/pl/docs/ind				
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	• Concepts and definitions related to GIS • The hardware and software of GIS systems • Other technical systems working with GIS • Spatial Analysis in GIS - be able to give an example • Differences between raster and vector-layers in GIS • Examples of graphical attributes and database layers vector • Inquiries (query) SQL - be able to give an example • Types of GIS software • Examples of GIS software for the power sector.				
Work placement	Not applicable				

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