

## Subject card

Subject name and code	THE REGISTRATION SYSTEMOF THENETWORK OF NETWORK OF UTLILTY LINES, PG_00044855								
Field of study	Geodesy and Cartography								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		mgr inż. Mariusz Chmielecki						
of lecturer (lecturers)	Teachers		mgr inż. Mariusz Chmielecki						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	15.0	0.0		0.0	45	
	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	45		6.0		49.0		100	
Subject objectives	Student knows geodetic works during preparations, bridge 9tunnel) projects.  Student knows geodetic network during constructing bridge (tunnel).  Student knows geodetic works during load tests.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_W07] has a well-established knowledge and understands concepts in the field of engineering geodesy including the use of calculations and measurements methods carried out with the use of geodetic instruments and photogrammetric and remote sensing technologies related to geodetic support for investment, surveying and inventory measurements and photogrammetry with remote sensing		has well-established knowledge and understands the concepts of engineering surveying, including the use of calculation methods and measurements carried out with the use of geodetic instruments						
	and select measurement methods		can solve geodetic tasks and select measurement methods for typical engineering tasks						

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Subject contents	Geodetic works during preparation, bridge (tunnel) project.							
	Geodetic network during costructing bridge (tunel).							
	3D geodetic network.							
	Geodetic works during load tests.							
Prerequisites								
and co-requisites		1						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade					
		60.0%	100.0%					
Recommended reading	Basic literature	Gacał J., Geodezja inżynieryjno-przemysłowa., AGH, 2009 r.						
		Żurowski A., Pomiary Geodezyjne w budowie dróg, lotnisk i mostów.,Wydawnictwo Komunikacji i łączności., 1975 r.						
	www.leica-geosystems.com							
	Supplementary literature	Janusz W., Obsługa geodezyjna budowli i konstrukcji., PWN, 1975 r.						
	eResources addresses	recommendation in the second						
Evernle issues/		Adresy na platformie eNauczanie:						
Example issues/ example questions/								
tasks being completed								
Work placement	Not applicable							
TOTA PIGGOTTION								

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