Subject card

Subject name and code	ROAD GEODESY, PG_00044853
Field of study	Geodesy and Cartography

Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
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	6.0
Learning profile	general academic profile	Assessment form	assessment

Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering

Name and surname of lecturer (lecturers)	Subject supervisor	
	Teachers	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	15.0	0.0	0.0	60
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	60	8.0	82.0	150

Subject objectives	The aim is to familiarize with the geodetic monitoring basic structural elements of buildings and road surfaces.

Learning outcomes	Course outcome	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 concepts in the field of engineering geodesy, including the use of calculation methods and measurements carried out with the use of geodetic instruments as well as photogrammetric and remote sensing technologies relating to geodetic investment service, geodetic implementation and inventory measurements as well as photogrammetry and remote sensing	
	[K6_W10] has elementary knowledge and understands the concepts of architecture and urban planning, construction, environmental engineering and transport necessary to carry out studies related to planning and investment service	has elementary knowledge and understands concepts in the field of construction, environmental engineering and transport necessary to carry out studies related to the planning and service of investments	

Subject contents	Geodetic service of the road building.. Marking out of engineering objects. Inventory measurements. Measurements of the deformation.

Prerequisites and co-requisites	Knowledge about elements of the civil engineering.

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	The project development section of the road	100.0%	20.0%
	Elaborats of computational task associated with deformation measurement	100.0%	40.0%
	practical test 2 - solving	60.0%	40.0%

Recommended reading	Basic literature	1. Przewłocki S. Geodezja inżynieryjno-drogowa. 2009 Wydawnictwo Naukowe PWN. Warszawa.
		2. Grala M., Kopiejewski G. 2003. Gedezja inżynieryjna. UW-M Olsztyn. 3. Geodezja inżynieryjna. T. 1-3, 1990-1994 PPW-K Warszawa.
		3. Prószyński W., Kwaśniak M., Podstawy geodezyjnego wyznaczania przemieszczeń. Oficyna Wydawnicza Politechniki Warszawskiej. Warszawa 2006.
	Supplementary literature	No requirements
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1. Staking transition curves 3. Adjustment of the control network 4. Examination of the subsidence of an engineering object	
Work placement	Not applicable	

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