

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Cartography, PG_00044812								
Field of study	Geodesy and Cartography								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Obligatory subject group 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	4		ECTS credits			8.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Paweł Wysocki							
	Teachers		dr inż. Paweł Wysocki dr inż. Tadeusz Widerski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	30.0	15.0	15.0	30.0		0.0	90	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic led in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	90		12.0		98.0		200	
Subject objectives	To familiarize students with the mathematical structure of the Earth's surface mappings used in the state coordinate systems, principles of the maps edition, cartographic generalization, qualitative and quantitative methods of cartographic representations on the example of the socio-economic issues.								
Learning outcomes	Course out	Subj		Method of verification					
	[K6_U07] can use referencesystems and coordinate framesaccording to the character ofcartographic studies, create athematic map and apply inpractice cartographicgeneralization[K6_W05] knows and understandsthe basic principles in the field ofgeomatics, mathematical andthematical cartography, includingreference systems and coordinateframes associated withcartographic elaborations, and hasknowledge about establishing andmodernizing geodetic networks,								
Subject contents	legal status								
	Spherical trigonometry. Rotational ellipsoid and sphere as reference surfaces. Ellipsoids: Krasowski, GRS-80, WGS-84. Radii of curvature Map definition. Concepts, functions and forms of the map. Map scale. Cartographic coordinate systems. Geographic grid. The concept of cartographic projection. Types and division of cartographic projections. Projection distortions. Gauss-Kruger projection. Azimuthal, conical and cylindrical projections. State spatial reference systems. Systems "1942", "1965", "GUGiK-80", "2000", "1992". UTM system. Topographic maps. Map editing rules. Cartographic signs system. Cartographic generalization. Cartographic methods of presentation: cartograms, cartodiagrams, range method, signature, isolines. Thematic cartography.								

Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Tests	50.0%	100.0%			
Recommended reading	Basic literature Supplementary literature	 Saliszczew K., General cartogr. House, Warsaw 2003. Ratajski Lech, Methodology of Warsaw 1989. Gajderowicz I., Cartographic Pr. Publishing House, Olsztyn, 200 Różycki J., Mathematical cartog Warsaw 1978 Pasławski J., (ed.) Introduction Publisher: NOWA ERA 2006. REGULATION OF THE COUN 2012 on the state spatial refere REGULATION OF THE MINIST ADMINISTRATION of 17 Nove topographic objects and the da objects, as well as standard card 	Aphy, PWN Scientific Publishing socio-economic cartography, ojections. The essentials , UWM 9. graphy. State Publishing House, to cartography and topography, CIL OF MINISTERS of October 15, nce system TER OF HOME AFFAIRS AND mber 2011 on the database of tabase of general geographic tographic coverage			
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Division and classification of cartographic projections Cartographic projections used in Poland Calculation of the meridian arc length. Projections distortions. State spatial references system Coordinate systems 2000 and 1992 Topographic map symbol. Editing of the map on a scale of 1: 25,000 based on source material prepared on a scale of 1: 10,000. Thematic maps					
vvork placement						