

Subject card

Subject name and code	Cartography and topography - laboratory, PG_00120421						
Field of study	Geography						
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026	
Education level	Bachelor's studies		Subject group			Obligatory subject group in the field of study 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	1		Language of instruction			Polish	
Semester of study	1		ECTS credits			3.0	
Learning profile	academic		Assessment form			credit	
Conducting unit	Centrum Monitoringu i Ochrony Wód -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Włodzimierz Golus				
	Teachers		dr Włodzimierz Golus				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	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	30		20.0		40.0	90
Subject objectives	Mastery the program content in the field of cartography and topography, aiming to: (1) acquire skills in utilizing appropriate cartographic methods to present elements of the geographical environment and socio-economic phenomena, (2) achieve versatile map reading skills and select and utilize available geographic information sources, including electronic sources, necessary for drafting specified maps, (3) gain skills in measurements on traditional maps and proficiency in using electronic maps and atlases.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOGRL3-K03] work in a group and perform various roles in it, take care of the entrusted equipment and the safety of themselves and others	Understanding the dynamics of working in a team, along with the ability to adapt to different roles, understanding the importance of care and responsibility for entrusted cartographic equipment, including safety principles associated with its use.	[SK2] presentation/project/paper/report [SK8] observation of student's independent or team work
	[GEOGRL3-U05] find and select the necessary information from professional literature and other sources, including electronic sources	Having knowledge of essential terrain information sources required in cartography and topography, along with the ability to make accurate choices of electronic and online sources.	[SU2] presentation/project/paper/report
	[GEOGRL3-U06] apply methods and research tools of geographic sciences, including conducting observations and field measurements, and assess their suitability for the tasks in which the application objective of geography can be achieved	Ability to apply cartographic methods and knowledge of basic research tools needed in the map creation process; understanding of observation and field measurement methods used in topography. By applying appropriate research methods and tools in the field of cartography and topography, they acquire data from maps as well as from direct independent observations and field measurements, which after thorough analysis, they use for the compilation of original thematic maps.	[SU2] presentation/project/paper/report
Subject contents	1. Methods of depicting relief on maps. 2. Scales and bars.. 3. Cartographic projections. 4. Methods of representing phenomena on thematic maps. 5. Cartographic generalization. 6. Coordinate systems on overview and topographic maps. Sectional division. 7. Cartometry. 8. Thematic maps. 9. Cartography - overview and discussion of selected works in contemporary cartography.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Progress assignments	51.0%	100.0%
Recommended reading	Basic literature	- Paślowski J. (red.), 2010, Wprowadzenie do kartografii i topografii, Wydawnictwo Nowa Era Redakcja Kartograficzna, Wrocław; - Pelczar M., Szeliga J., Ziółkowski J., 1991, Zarys kartografii i topografii, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk. A.2. studiowana samodzielnie przez studenta - Ratajski L., 1989, Metodyka kartografii społeczno-gospodarczej, PPWK, Warszawa-Wrocław; - Saliszczew K., 1998, Kartografia ogólna, PWN, Warszawa.	
	Supplementary literature	- Churski Z., Galon R., 1996, Siatki Kartograficzne, Wydawnictwo UMK, Toruń. - Dzikiewicz B., 1971, Topografia, Wyd. Ministerstwa Obrony Narodowej. - Berlant A., Paślowski J. (red.), 2001, Metody kartograficzne a możliwości systemów komputerowych, Uniwersytet Warszawski, Warszawa	

	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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