

Subject card

Subject name and code	, PG_00120926						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's 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	6		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Geophysics -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Robert Sokołowski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		4.0		10.0	29
Subject objectives	- Familiarity with basic petroleum geology terms - Knowledge of research methods: field, laboratory and in-camera - Knowledge of the main developments in petroleum geology - Use of modern research tools - Practical application of knowledge						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_W07] knows the anthropogenic transformation of the natural environment, including the effects of the exploitation of mineral resources		is familiar with anthropogenic transformation of the natural environment, taking into account the effects of hydrocarbon exploitation		[SW4] test/exam - oral or written		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		knows and understands terminology appropriate in petroleum geology		[SW4] test/exam - oral or written		
	[GEOLL3_W04] knows and understands phenomena and processes occurring in the past and today in the interior of the Earth and on its surface, defines the methods of how to study them		knows and understands the phenomena and processes occurring in the oil system, defines the methods of their research		[SW4] test/exam - oral or written		
	[GEOLL3_W01] knows and understands the basic natural phenomena and explains their course in relation to geological processes		knows and understands basic phenomena and processes in petroleum systems		[SW4] test/exam - oral or written		
Subject contents	Introduction: general knowledge of oil and gas History of the development of petroleum geology and hydrocarbon exploration Theories of the origin of oil and gas Conditions of occurrence of oil and gas within the petroleum basin Characteristics of source, reservoir and sealing rocks Migration and accumulation processes of hydrocarbons Hydrocarbon reservoirs, classification of oil and gas reservoirs Oil and gas exploration methods						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written pass	51.0%	100.0%
Recommended reading	Basic literature	Selley R.C., 1998: Elements of Petroleum Geology. 2nd ed. Academic Press San Diego Zawisza, L., 2009. Geologia naftowa. Wyd. AGH, Kraków Zubrzycki, A., 2007: Podstawy geologii naftowej. Wyd. AGH, Kraków. Bjorlykke K., 2010: Petroleum Geoscience: From Sedimentary Environments to Rock Physics. Springer, str. 508. Hunt J.M., 1996: Petroleum Geochemistry and Geology. 2nd ed. W.H.Freeman and Company, New York.	
	Supplementary literature	Levorsen A.I. - Geologia ropy naftowej i gazu ziemnego. Wyd. Geologiczne, Warszawa, 1972, str. 570. Hantschel T., Kauerauf A., 2009: Fundamentals of Basin and Petroleum Systems Modeling. Springer: ss. 1-476.	
	eResources addresses		
	Example issues/ example questions/ tasks being completed	Major oil basins in Poland Characteristics of hydrocarbon generation and migration Types of reservoir traps	
Work placement	Not applicable		

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