



## Subject card

Subject name and code	Energy policy, PG_00057254						
Field of study	Power Engineering, Power Engineering, Power Engineering						
Date of commencement of studies	February 2022	Academic year of realisation of subject			2021/2022		
Education level	second-cycle studies	Subject group			Obligatory subject group in the field of study Humanistic-social subject group		
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			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład Ekoinżynierii i Silników Spalinowych -> Institute of Energy -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Janusz Cieśliński				
	Teachers		prof. dr hab. inż. Janusz Cieśliński dr inż. Bartosz Dawidowicz				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	15.0	30
	E-learning hours included: 0.0						
	Polityka energetyczna - Moodle ID: 22308 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22308">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22308</a>						
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	6.0	14.0	50		
Subject objectives	Energy policy in the scale of the state, region and commune. The importance of energy security. The energy policy of the European Union. Priorities of Poland's energy policy until 2040.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W07] knows the environmental effects of energy technologies used; is familiar with the issues of effective energy management and use of renewable energy sources, has a broad and well-established knowledge of the processes of energy production and use		The student can assess political activities in the field of energy security		[SW1] Assessment of factual knowledge		
	[K7_K02] is able to work in a group and take on different roles		The student can assess the social effects of, for example, high energy prices or the lack of it		[SK4] Assessment of communication skills, including language correctness		
	[K7_K05] is aware of the impact of engineering activities on the environment		The student is able to assess the technical difficulties of implementing energy projects		[SK4] Assessment of communication skills, including language correctness		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		The student understands the importance of energy in the development of human civilization		[SU4] Assessment of ability to use methods and tools		

Subject contents	<p>1. Polityka i geopolityka</p> <p>2. Polityka energetyczna i bezpieczeństwo energetyczne</p> <p>3. Ubóstwo energetyczne</p> <p>4. Wzrost świadomości znaczenia polityki energetycznej</p> <p>5. Polityka energetyczna Unii Europejskiej</p> <p>6. Polityka energetyczna Polski do 2040</p> <p>Mix energetyczny, transformacja energetyczna</p> <p>Trójmorze i Międzymorze</p> <p>Polska strategia wodorowa</p>											
Prerequisites and co-requisites	Applied thermodynamics, heat transfer, energy conversion											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="454 869 794 898">Subject passing criteria</th> <th data-bbox="799 869 1139 898">Passing threshold</th> <th data-bbox="1144 869 1482 898">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 904 794 934">Seminar</td> <td data-bbox="799 904 1139 934">56.0%</td> <td data-bbox="1144 904 1482 934">50.0%</td> </tr> <tr> <td data-bbox="454 940 794 969">Lecture</td> <td data-bbox="799 940 1139 969">56.0%</td> <td data-bbox="1144 940 1482 969">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Seminar	56.0%	50.0%	Lecture	56.0%	50.0%
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Recommended reading	Basic literature	<p>1. Bartodziej G., Tomaszewski M.: Polityka energetyczna i bezpieczeństwo energetyczne. Wyd. 2. Wydawnictwo Nowa Energia, Racibórz, 2009</p> <p>2. Michałowski W.: Rury pod specjalnym nadzorem. Wyd. von borowiecky, 2010</p> <p>3. Smyrgała D.: Oś naftowa. Latynoamerykańskie imperium Hugo Chaveza. Difin, 2012</p> <p>4. Makuch G.: Gaz łupkowy. Wielka gra o bezpieczeństwo energetyczne, Kraków 2014</p> <p>5. Bartosiak J.: Pacyfik i Eurazja. O wojnie, ZonaZero, 2016</p> <p>6. Bartosiak J.: Rzeczpospolita między lądem a morzem. O wojnie i pokoju, Warszawa 2018</p> <p>7. Krajewski A.: Krew cywilizacji. Biografia ropy naftowej. Wydawnictwo Mando, 2018</p> <p>8. Wiech J.: Energiewende. Nowe niemieckie imperium. Energetyka24, Warszawa, 2019.</p> <p>Dokumenty</p> <p>1. Polityka energetyczna Polski do 2040 roku (na dzień 18.02.2021 niedostępny)</p> <p>(<a href="http://www.mg.gov.pl">http://www.mg.gov.pl</a>)</p> <p>2. Projekt Polityka surowcowa państwa, MŚ, 2018</p> <p>3. Polska strategia wodorowa do roku 2030 z perspektywą do 2040 r. projekt</p>
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	Supplementary literature	<p>Energetyka24 profesjonalny serwis dla branży energetycznej - <a href="http://www.energetyka24.com">www.energetyka24.com</a></p> <p>Centrum Informacji o Rynku Energii - <a href="http://www.cire.pl">http://www.cire.pl</a></p> <p>Centrum Strategii Energetycznych - <a href="http://cse.ibngr.pl/">http://cse.ibngr.pl/</a></p> <p>Wirtualny Nowy Przemysł - <a href="http://energetyka.wnp.pl">http://energetyka.wnp.pl</a></p> <p>Ośrodek Analiz Strategicznych</p> <p>Stratfor <a href="https://www.stratfor.com">https://www.stratfor.com</a></p> <p>Biuro Bezpieczeństwa Narodowego</p> <p>Klub Jagielloński</p> <p>Instytut Sobieskiego</p> <p>Dolnośląski Instytut Studiów Energetycznych</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Reasons for the growing importance of energy policy.</li> <li>2. The level of Poland's energy dependence compared to other European countries</li> <li>3. What is the principle of TPA (Third Party Access) - third party access</li> <li>4. Joint energy projects of EU countries</li> <li>5. What is the solidarity clause in the EU energy policy</li> </ol>	
Work placement	Not applicable	