



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Energy policy of Poland [S2EJ1>PEP]

Course

Field of study

Nuclear Power Engineering

Year/Semester

2/3

Area of study (specialization)

–

Profile of study

general academic

Level of study

second-cycle

Course offered in

polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

30

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

2,00

Coordinators

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Lecturers

Prerequisites

Basic knowledge of power engineering and energy machinery and equipment. Basic knowledge of renewable energy sources used in the power industry. Basic knowledge of energy security. Basic knowledge of the fundamentals of electrical power engineering, the impact of power engineering on the environment, the transmission and distribution of electricity, energy markets, the operation of energy systems. Knowledge of the basics of entrepreneurship, market functioning and market economy.

Course objective

To acquire by the student the knowledge of energy policy. To get to know the most important concepts, tasks and competences of relevant administrative authorities, to get to know instruments of energy market regulation, legal protection measures, rights and obligations of suppliers and consumers of energy and fuels. To master the basic knowledge about the creation and implementation of Poland's energy policy. To get familiar with the system of law formation and energy policy in the European Union and in Poland. To get familiar with strategies and ways to implement the national energy policy.

Course-related learning outcomes

Knowledge:

1. The student knows and understands the need to create state energy policy.
2. The student has knowledge of the binding energy law. The student knows the concept of energy law and is able to indicate the most important legal acts of Polish and EU law.
3. He/she has knowledge of the role of energy policy in the state security system and factors determining raw material and energy security, including their impact on the environment.
4. Understands energy threats related to access to raw materials and energy supply..

Skills:

1. The student is able to assess changes in the energy sector in the context of energy policy changes.
2. The student is able to analyse interrelationships related to changes in energy commodity policy on energy policy.

Social competences:

1. The student is aware of the importance of and understands the non-technical aspects and effects of power engineering, including nuclear power engineering, on the environment.
2. The student understands the necessity of systematic deepening and broadening of his/her knowledge and skills.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures

Credit in written form by the deadline given at the beginning of the semester. A list of questions is made available to students at the beginning of the semester. Student activity is assessed at each lecture. A minimum of 50% of the maximum number of points is required to pass the course.

Programme content

Lectures

The history of the development of the energy sector in Poland, in the context of energy policy making. The process of creating and adopting Poland's energy policy and its impact on energy security. The concept of energy security. Objectives and content of energy policy. Poland's energy policy, current state, resource structure, production of energy resources. The role of energy policy conducted by territorial units. Principles and process of creating plans for supply of heat, electricity and gaseous fuels by territorial units. Energy policy at the level of the Municipality. The role of legislation at the European Union level on the process of creating Polish energy policy.

Teaching methods

Lecture delivered remotely using synchronous access methods.

Lectures:

lectures in the form of multimedia presentations and problem-solving supplemented elements of brainstorming and discussion.

Bibliography

Basic:

1. F. Elżanowski, Polityka energetyczna. Prawne instrumenty realizacji, Warszawa 2008
2. Polityka energetyczna Polski do 2040 r., Ministerstwo Klimatu i Środowiska, Warszawa 2021
3. Staszewski R., Tajduś A., Prawo energetyczne z aktami wykonawczymi, Wydawnictwo AGH, 2009
4. Wojtkowska-Łodej G., Uwarunkowania rozwoju energetyki w zakresie polityki energetycznej i regulacyjnej, ELIPSA Warszawa 2016
5. Kamrat W., Gospodarka energetyczna w warunkach rynkowych, PWN, 2022
6. Kucharska A., Transformacja energetyczna, PWN, 2021
7. Polityka energetyczna i bezpieczeństwo energetyczne, Bartodziej G., Tomaszewski M., Wydawnictwo Nowa Energia

Additional:

1. Ustawa z dnia 10 kwietnia 1997 r. PRAWO ENERGETYCZNE z Rozporządzeniami Ministra Gospodarki w sprawie szczegółowych zasad kształtowania i kalkulacji taryf oraz zasad rozliczeń w obrocie energią

elektryczną.

2. Radosław Szczerbowski, /redakcja naukowa. Energetyka węglowa i jądrowa: wybrane aspekty, Poznań 2017

3. Szczerbowski, R., Ceran, B. 2017. Polityka energetyczna Polski w aspekcie wyzwań XXI wieku. Polityka Energetyczna - Energy Policy Journal t. 20, z. 3, s. 17-28.

4. Istotne aspekty bezpieczeństwa energetycznego Polski / Piotr Janusz, Radosław Szczerbowski, Przemysław Zaleski / Warszawa, Polska : Texter, 2017

5. Bezpieczeństwo energetyczne, Ruszel M., Gryz J., Podraza A. (red), PWN 2022

6. Bezpieczeństwo energetyczne Polski, Ruszel M., Wydawnictwo Rambler

7. Energetyka w kierunku nowej polityki energetycznej. Tom 2, Szczerbowski R. (red), Wydawnictwo Fundacja na rzecz Czystej Energii, 2020.

Breakdown of average student's workload

	Hours	ECTS
Total workload	55	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00