COURSE SPECIFICATION

Course code: 0312.3.SM2.C.MRE

Course title in Polish: Międzynarodowy rynek energetyczny
Course title in English: International Energy Markets

1. Placement of the course within the study programme

1.1. Field of study	**International relations**
1.2. Mode of study	Full-time / part-time mode
1.3. Level of study	Masters's degree (second-cycle)
1.4. Profile of study	General academic
1.5. Course specification author	Marcin Szmel
1.6. Contact	ismipp@ujk.edu.pl

2. Generał characteristics of the course

2.1. Language of instruction	English/Polish
2.2. Entry requirements	General knowledge of core subjects in the field of social sciences

3. Detailed characteristics of the course

3.1. Type of classes	Lectures (consultations – if needed) and seminars (consultations – if needed)
3.2. Place of course delivery	Lecture rooms of the Faculty of Law and Social Sciences
3.3. Form of assessment	Lecture – exam, seminars - credit with grade
3.4. Teaching methods	Lecture - expository method, problem lecture Seminars – problem methods, activating methods – discussion; case studies, analysis of industry articles and market information
3.5.a. Basic reading list	1. Wojtkowska - Łodej G. (ed.), Transformacja rynków energii. Gospodarka – Klimat – Technologia – Regulacje. Oficyna Wydawnicza SGH, Warszawa 2022 2. Młynarski T, Tarnawski M., Źródła energii i ich znaczenie dla bezpieczeństwa energetycznego w XXI wieku. Difin, Warszawa 2016. 3. Rembieza J., Przekota G., Międzynarodowe rynki energii. Wydawnictwo Uczelniane Politechniki Koszalińskiej, Koszalin 2021. 4. Jastrzębska G., Energia ze źródeł odnawialnych i jej wykorzystanie. Wydawnictwa Komunikacji i Łączności, Sulejówek, 2021. 5. Tomaszewski K., Polityka energetyczno-klimatyczna Unii Europejskiej. W kierunku zrównoważonego rozwoju. Wydawnictwa Uniwersytetu Warszawskiego, Warszawa 2025. 6. Filipiak I., Mielczarski W., Energetyka w okresie transformacji. PWN, Warszawa 2024. 7. Baffes J., Nagle P. (eds.), Commodity Markets. Evolution, Challenges and Policies, wyd. International Bank for reconstruction and Development/World Bank, Waszyngton 2022. 8. Hafner M., Luciani G. (eds.),The Palgrave Handbook of International energy Economics, wyd. Palgrave Macmillan, Cham 2022. 9. Bradshaw M.J., The Geopolitics of Energy System Transformation, wyd. Bristol University Press, Bristol 2026.

	10. Geopolitics of the Energy Transition. Critical Materials (Report), wyd. International Renewable Energy Agency, Abu Dabi 2023. 11. World Energy Outlook (Report), wyd. International Energy Agency, Paryż 2025.
3.5.b. Supplementary reading list	1. Zieliński A.S. (eds.), Elektrownie jądrowe we współczesnej gospodarce. PWN, Warszawa 2024 2. Scheyder E., Wojna o minerały. Jak surowce strategiczne decydują o naszej przyszłości energetycznej, MT Biznes, Warszawa 2024. 3. Soroka P., Bezpieczeństwo energetyczne: między teorią a praktyką. Dom Wydawniczy „Elipsa", Warszawa 2015. 4. Klugmann – Radziemska E. (eds.), Energetyka i ochrona środowiska, PWN, Warszawa 2024. 5. Yergin D., Nowa mapa. Jak energetyka zmienia politykę. Wyd. Sonia Draga Postfactum, Katowice 2021 (also: Yergin D., The New Map. Energy, Climate and the Clash of Nations, wyd. Penguin Publishing Group, Londyn/Nowy Jork, 2020). 6. Andrews J., Jelley N., Energy Science: Principles, Technologies, and Impacts. Oxford University Press, Oksford 2021. 7. Hess M., Economic War: Ukraine and the Global Conflict between Russia and the West. Hurst&Co., Londyn 2021. 8. Tan H., China's International Energy Relations. The Impact of Transition from Fossil Fuels to Renewables. Cambridge University Press, Cambridge 2025. 9. Etkind A., Rosja kontra nowoczesność. Wyd. Krytyki Politycznej, Warszawa 2024. 10. Kardaś Sz., Dyplomacja energetyczna Federacji Rosyjskiej 1992 – 2025. Wydawnictwo Naukowe FNCE, Poznań 2025.

4. Objectives, content and learning outcomes

4.1. Course objectives (taking into account the form of classes)

L- Lecture, S - Seminar

- **CO1.** Knowledge - providing students with basic knowledge about energy resources, their geographical distribution, conditions of extraction, logistic chains and processing, including critical resources and new raw material value chains. Providing students with basic knowledge about the essence of the international energy market as a mosaic of markets, mechanisms of cooperation, integration, but also competition and the different aspirations of their participants (L).
- **CO2.** Skills - developing the ability to identify market participants from a structural and systemic perspective traditional and modern energy sources, the traditional and transformational energy mix models, and transmission and distribution network management. Preparing students to independently identify the mechanisms of energy diplomacy, energy blackmail, areas of cooperation, market integration, identification of potential energy blocks and regional and global trends (L,S).
- **CO3.** Social competences - preparing students to independently acquire information about current trends in the international energy market and developing the ability to forecast changes in this market. Preparing graduates to take up employment in positions related to the supply of

energy carriers/chains on foreign markets, and also shaping creativity, professionalism, ethical sensitivity and a sense of responsibility in the work environment and beyond (S).

4.2. Course content (taking into count the form of classes)

Lectures

1. The concept of energy, factors shaping supply and demand. The role of the state.
2. The specificity of the energy market and its entities.
3. Traditional energy resources, nuclear energy, renewable energy sources, alternative energy sources, and future technologies.
4. The geographic distribution and supply structure of energy resources.
5. Characteristics of the oil, gas, and coal markets, the scarcity and heterogeneity of resources. Energy exchanges and their pricing structure.
6. Energy market liberalization – the clash of paradigms: globalization, liberal economics, integration, energy sovereignty, and building technological advantages.
7. The structure of energy import contracts.
8. Building a common energy and emissions market in the European Union.
9. Basic information about the EU energy market.
10. The EU's raw materials and energy strategy.

Seminars

1. The position of China, Brazil, Australia, Canada, the USA, Russia, India, and the Middle East as market participants. Rising and falling energy empires and energy blocs.
2. Characteristics of network energy sources. Renewable energy components and associated technologies.
3. Leading corporations, consortia, and commodity and energy exchanges. Linking emissions to global climate change. Alternative models of production and consumption.

4.3. Course learning outcomes

Course learning outcomes (code)	Upon completion of te course, the student	Alignment with programme learning outcomes
	in the area of knowledge:	
W01	He/she has in-depth knowledge of the theory and practice of the functioning of international energy markets and their importance for international relations, strategic security of states, economic development, technology transfer and capital flows, as well as the location of these issues within international relations and other fields of social sciences and the discipline of political science and administration.	SM2A_W01
W02	Has advanced knowledge of selected, relevant aspects of contemporary international relations, especially in the context of globalization and regionalization processes, the reconstruction of supply chains, the creation of new value chains, institutionalization and legislation in the field of energy and the formation of new energy markets.	SM2A_W08
W03	He/she has comprehensive knowledge of selected processes and concepts in the field of international economic processes, including energy markets as an area of value transfers and capital flows, and of the nature and conditions of contemporary energy policy.	SM2A_W09

W04	He/she has in-depth knowledge of current challenges and problems related to the extraction and depletion of energy resources, as well as the strategic energy race and its actors, international formats, threats and forecasts.	SM2A_W12

in the area of skills:

U01	Is able to identify and comprehensively interpret the most important facts, conditions and processes occurring in international energy markets, including regional and global processes and trends.	SM2A_U01
U02	Is able to comprehensively analyse and interpret complex decisions and actions of state authorities, exporters and importers of energy resources and international organisations/institutions influencing energy markets.	SM2A_U09
U03	He/she is able to perform a multidimensional synthesis of various categories of conditions, dependencies, and interactions, as well as undertake forecasting attempts, in the process of in-depth analysis of the relationships between entities in international energy markets.	SM2A_U12

in the area of social competences:

K01	He/she has the ability to independently and consistently expand his/her knowledge and professional experience, including organizing and critically verifying sources.	SM2A_K01
K02	Is ready to take responsibility for his/her actions and independently solve tasks in professional work, identify problem issues and select the tools necessary to solve them.	SM2A_K02
K03	He or she is prepared to work effectively and creatively in a team, is aware of his or her role within the professional group, has the ability to assume specific social roles, and is open to new forms of social communication.	SM2A_K04

4.4. Assessment methods for learning outcomes

Assessment method (+/-)

Course learning outcomes (code)	Oral/written/ examinaion	Project	In-class activity

Type of classes

1: / 2:	L	S	...	L	S	...	L	S	...
W01	+				+				
W02	+				+				
W03	+				+				
W04	+				+				
U01					+			+	
U02					+			+	
U03					+			+	
K01								+	
K02								+	
K03								+	

Annotation. 1: form of classes; 2: learning outcomes

4.5. Assessment criteria for learning outcomes

Type of classes:

LECTURE (L)

Grade	Assessment criteria
3,0	He/she can define and discuss in general terms the basic content presented during the course.
3,5	His/her knowledge goes slightly beyond the basic curriculum content, but his/her statements contain a number of errors and inaccuracies.
4,0	He/she has good knowledge, skills and social competences in the subject, but is not able to discuss the subject content in detail.
4,5	He/she presents the program content in detail, but there are errors and inaccuracies in his/her statements.
5,0	He/she is able to present program content in detail and go beyond its scope, making a multidimensional analysis while maintaining coherence of expression and correctness of reasoning.

Type of classes:

SEMINAR (S)

Grade	Assessment criteria
3,0	Project with minimum required level + no activity during classes.
3,5	Project slightly exceeding the expected minimum + no or minimal activity during classes.
4,0	Project at a level well beyond the minimum requirements + average activity in exercises.
4,5	Above-average project + average or high activity during exercises.
5,0	Project at an above-average or expert level + high activity in classes.

5. ECTS credit allocation – student workload

Category	Student workload (full-time mode)	Student workload (part-time mode)
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER (CONTACT HOURS)	**60**	**40**
Participation in lectures	30	20
Participation in seminars	30	20
INDEPENDENT STUDY (NON-CONTACT HOURS)	**40**	**60**
Preparation for lectures	10	15
Preparation for seminars	15	25
Preparation for examination	10	15
Gathering materials for project, online research	5	5
TOTAL HOURS	**100**	**100**
ECTS CREDITS for the course	**4**	**4**

*** delete as appropriate**

Approved for implementation (date and legible signatures of course instructors in the given academic year):

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