	Course syllabus:	International Energy Markets
	Print date	: 22.07.2023
	Year:	2023/2024
	Field:	International Business
Uniwersytet Ekonomiczny we Wrocławiu		
		Description of the course

This course aims to give the students the fundamental knowledge of how the international energy markets function. precisely in the context of transnational corporations and their operations in individual market segments. The scope of this course covers the topics related to the structures and models of international energy markets, analysis of the factors affecting the external and internal environment of the organizations' functioning on selected national energy markets, as well as the international trade of leading energy carriers and cooperation in the field of transnational power grid interconnections. Besides, this course offers the students an opportunity to develop their market analysis skills by introducing various methods to gather the energy market data, process it, and analyze it using different statistical techniques. Furthermore, this course offers the chance to develop the student's knowledge about environmental protection issues, which influence and shape some aspects of international energy markets' functioning. By undertaking this course, students will be allowed to develop the characteristics of the international energy market segments based on the evidence from the self-conducted projects, which are the outcome of this course.

Basic information

English name:	International Energy Markets	Class form	Hours	Semester
Course code:		Lectures	15/8	111/111
		Tutorials	15/8	111/111
Course status:	Obligatory	Computer lab	0/0	-/-
Coordinator:	Paweł Brusiło	Seminar	0/0	-/-
Sylabus author:	Paweł Brusiło	Science lab	0/0	-/-
Study level:	2	Form of credit:		Pass
Semester:	Ш			
Form of study:	Full-time / Part-time	Course-related Ir	Prerequisite	s Outcomes
The course is assoc at developing stude	iated with research activity and is aimed nts' research knowledge and skills.	BA curriculum, International Eco	nomics,	

111/111 -/-3.0/3.0 -/--/-ISS

ECTS points

Law regulating functioning of transnational corporations

Teaching methods

Lecture, case study, research project, group work discussion.

Effects and goals

Learning objectives for the course

Code	Description
C1	Presenting political, socio-economical, technical, legal, and environmental determinants that shape international energy markets.
C2	Providing a theoretical and methodological framework for the international energy market analysis.
C3	Presenting the case studies of individual energy market segments and the most successful companies operating on them.

Intended Learning Outcomes for the Course

Knowledge

Symbol	Description	ILO	Objectives
W1	Possesses knowledge about global trends, determinants, and challenges in the international energy markets and their segments.	K_K01, K_K03	C1, C3
W2	Understands the rationales behind the domestic and international energy policies, legal regulations and strategies that impact the energy markets.	K_K01, K_K02, K_K04	C1
W3	Knows the methods and techniques to analyze characteristics and structure of the energy markets and individual segments.	K_K01	C1, C2
W4	Knows the examples of transnational firms that operate on the individual energy market segments and understands the determinants of their position.	K_K01, K_K02, K_K03, K_K04	C1, C2, C3

Skills

Symbol	Description	ILO	Objectives
U1	Can determine the main trends and factors shaping the energy demand and supply in the global economy.	K_U01, K_U03	C1, C2, C3
U2	Demonstrates the ability to analyze international and national energy policies and strategies critically.	K_U03	C1, C2
U3	Identifies the sources of international energy market data and performs fundamental analysis of energy supply and demand on various energy market segments.	K_U01, K_U02	C2, C3
U4	Explains the differences between individual energy market segments by presenting their specific determinants and issues.	K_U02, K_U03	C1
U5	Can study the cases of firms operating on international energy markets with the use of appropriate techniques and tools.	K_U01	C2, C3

Social competences

Symbol	Description	ILO	Objectives
K1	Shows an interest in international energy market transformations under the influence of global challenges, determinants, and trends.	K_K01, K_K02	C1, C2
К2	Demonstrates the ability to determine the impact of energy policies and strategies on the international energy markets.	K_K02, K_K03	C1, C2
КЗ	Logically reasons and effectively presents findings from the self-conducted energy market analysis.	K_K02, K_K03	C2, C3

Course topics

		Full-time studies						time s	studies	5				
	Торіс	L	Т	CL	S	SL	L	Т	CL	S	SL	Objectives	Effects	
1.	Introduction to the international energy markets: global trends and challenges for the market entities and transnational corporations.	1	1	0	0	0	1	0	0	0	0	C1,C2,C3	W1, W2, U1, U2, K1, K2	
2.	The theoretical background of the international energy markets analysis: theories and models of energy markets functioning.	1	1	0	0	0	1	0	0	0	0	C1,C2,C3	W1, W3, U3, U4, K1, K2	
3.	Structure of the international energy markets: energy market segments (i.e., oil, coal, LNG, hydrogen and electricity), market entities, stakeholders, international institutions, legal and policy framework. Case studies of the most successful companies that dominate these segments globally and regionally in Poland and selected EU countries.	1	1	0	0	0	0	1	0	0	0	C1,C2,C3	W1, W4, U4, U5, K3	
4.	Analysis of the factors determining a company's internal and external environment operating in the international energy markets.	2	2	0	0	0	1	1	0	0	0	C1,C2,C3	W3, W4, U3, U5, K2, K3	
5.	Energy demand analysis: international and national data sources and basic analytical framework with the examples of techniques.	1	1	0	0	0	1	1	0	0	0	C1,C2,C3	W1, W2, W3, U1, U2, U5, K1, K3	

6. E a a	Energy supply analysis: international and national data sources and basic analytical framework with the examples of techniques.		1	1	0	0	0	1	1	0	0	0	C1,C2,C3	W1, W2, W3, U1, U2, U5, K1, K3
7. Ir o d o c a cl	nternational fos ill, hydrogen, au lynamics, the ro organizations, n consumers, inte ind volumes, cu hallenges, pers	ssil-fuels markets (LNG, nd coal markets): market ole of OPEC and other nain suppliers and mational trade relations urrent and future market spectives for fossil fuels.	1	1	0	0	0	0	1	0	0	0	C1,C2,C3	W1, W4, U1, U3, U4, K1, K2
8. N m d g p c c in	National and regional electricity markets: natural monopoly, example diverse national electric power generation-mixes, international elec power trade and transnational cooperation for the development of interconnected power-orids		1	1	0	0	0	0	1	0	0	0	C1,C2,C3	W2, W4, U2, U3, U4, K1, K2
9. Ir re cl d e a ir s	ntroduction to the elated to intern limate change lecarbonization conomic and n and policy incern ndividual intern segments.	he environmental issues ational energy markets: mitigation, of the energy sectors, ion-economic barriers itives imposed on the ational energy market	1	1	0	0	0	1	0	0	0	0	C1,C2,C3	W1, W2, U1, U2, K1, K2
10. Ir ir st m in st te tr cl o o r e th st r e	mpacts of the enternational end trategies of trainain areas of the mpact on energy trategies of cor- echnologies, dy ransition in Pola- shallenges, and opportunities – of enewable energy the EU and ana successful component	energy transition on ergy markets and instational coprorations: ne energy transition gy markets and porations, key rnamics of the energy and and the EU, critical potential market examples of the growing gy sectors in Poland and lysis of individual panies operating on the gy market segments.	1	1	0	0	0	1	0	0	0	0	C1,C2,C3	W1, W2, U1, U2, K1, K2
11. P a re cu ir n e ir	 Polish energy market: market segments. Polish energy market: market structure and characteristics, international trade relations (fossil fuels) and infrastructural cooperation in the field of interconnected power-grid development, national policies that shape the Polish energy market, role of energy transition in the Polish energy market 		1	1	0	0	0	0	1	0	0	0	C1,C2,C3	W2, W3, W4, U2, U3, K1, K3
12. E a re ir e E tr	 EU energy markets: market structure and characteristics, international trade relations (fossil fuels) and infrastructural cooperation in the field of interconnected power-grid development, examples of EU policies that shape the EU energy markets, role of energy transition in the EU energy markets. 		2	2	0	0	0	0	1	0	0	0	C1,C2,C3	W2, W3, W4, U2, U3, K1, K3
13. E si p ci a	 Energy market crisis; types of crisis, supply- and demand-side shocks, phases, impacts on production and consumption, evidences from the past and perspectives. 		1	1	0	0	0	1	0	0	0	0	C1,C2,C3	W1, W3, U3, U4, U5, K1, K2
			L	Т	CL	S	SL	L	Т	CL	S	SL		
		Total	15	15	5 C) () () 8	B 8	3 () () (
		Total hours			30					16	5			

Topics - projects

Topic Full time Part time Objectives ILO	
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Topics - research projects

	Торіс	Full time	Part time	Objectives	ILO
1.	Analysis of the selected international energy market segment, considering the impact of national energy policies and strategies, market structure, as well as international trade relations and transnational cooperation between key market participants.	40	40	C1,C2,C3	W1, W3, W4, U2, U3, U4, U5, K2, K3
	Total:	40	40		

Control matrix

Symbol	Topics	Projects	Research projects	Topics	Projects	Research projects	C1	C2	C3	C4	C5
W1	9	0	1	9	0	1	1	0	1	0	0
W2	8	0	0	8	0	0	1	0	0	0	0
W3	7	0	1	7	0	1	1	1	0	0	0
W4	6	0	1	6	0	1	1	1	1	0	0
U1	6	0	0	6	0	0	1	1	1	0	0
U2	8	0	1	8	0	1	1	1	0	0	0
U3	7	0	1	7	0	1	0	1	1	0	0
U4	5	0	1	5	0	1	1	0	0	0	0
U5	5	0	1	5	0	1	0	1	1	0	0
K1	11	0	0	11	0	0	1	1	0	0	0
K2	8	0	1	8	0	1	1	1	0	0	0
K3	6	0	1	6	0	1	0	1	1	0	0

Assesment of ILOs achievement

Symbol	Description	Exam	Control work	Projects	Activity in class	Research project
W1	Possesses knowledge about global trends, determinants, and challenges in the international energy markets and their segments.	-	+	-	+	+
W2	Understands the rationales behind the domestic and international energy policies, legal regulations and strategies that impact the energy markets.	-	-	-	+	+
W3	Knows the methods and techniques to analyze characteristics and structure of the energy markets and individual segments.	-	-	-	+	+
W4	Knows the examples of transnational firms that operate on the individual energy market segments and understands the determinants of their position.	-	-	-	+	+
Symbol	Description	Exam	Control work	Projects	Activity in class	Research project
U1	Can determine the main trends and factors shaping the energy demand and supply in the global economy.	-	+	-	+	+
U2	Demonstrates the ability to analyze international and national energy policies and strategies critically.	-	+	-	-	+
U3	Identifies the sources of international energy market data and performs fundamental analysis of energy supply and demand on various energy market segments.	-	-	-	+	+
U4	Explains the differences between individual energy market segments by presenting their specific determinants and issues.	-	+	-	+	+
U5	Can study the cases of firms operating on international energy markets with the use of appropriate techniques and tools.	-	-	-	+	+
Symbol	Description	Exam	Control work	Projects	Activity in class	Research project
K1	Shows an interest in international energy market transformations under the influence of global challenges, determinants, and trends.	-	-	-	+	-
K2	Demonstrates the ability to determine the impact of energy policies and strategies on the international energy markets.	-	+	-	-	+

КЗ	Logically reasons and effectively presents findings from the self- conducted energy market analysis.			-	-	-	+	+
Weight in the overall verification of the ILOs [in%]		Total:	100%	0%	30%	0%	10%	60%

Workload

Forms of student activity	Full-time	Part-time
Hours of classes in accordance with the curriculum	30	16
Project	0	0
Project research	40	40
Preparing for tutorials	5	15
Getting to know the literature on the subject and teaching materials provided by the teacher	10	15
Total:	85	86

	Full-tir	ne	Part-time	
	min	max	min	max
Suggested number of ECTS for the course (min-max)	2	3	2	3
Hours of ECTS in accordance with the curriculum	3	3		3

Basic literature

Title	Authors (Surname, initial of the name)	Publishing house	Place of issue	Year of issue
International energy markets: Understanding pricing, policies and profits (2nd ed.)	Dahl, C.A.	PennWell	Tulsa, OK	2015
Energy Economics. Theory and Applications	P. Zweifel, A. Praktiknjo, G. Erdmann	Springer	Berlin	2017
Energy Economics, Markets, History and Policy	R.L. Nersesian	Routledge	London and New York	2016

Supplementary literature

Title	Authors (Surname, initial of the name)	Publishing house	Place of issue	Year of issue
Key world energy statistics and individual market reports	International Energy Agency	International Energy Agency	Paris	2022-

Tutors

Academi c title	Name	Surname	Form of classes	Phone number	Email	Website	Office (building and room)
mgr	Paweł	Brusiło	L, T	+487232378 87	pawel.brusilo@ue.wroc.pl	https://pawelbru silo.com/	107B