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**FEDERAL STATE AUTONOMOUS EDUCATIONAL INSTITUTION OF HIGHER  
EDUCATION PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER  
PATRICE LUMUMBA  
(RUDN University)**

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Faculty of Economics

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**COURSE SYLLABUS**

**GAS WARS IN THE 21<sup>ST</sup> CENTURY**

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**Recommended by the Didactic Council for the Education Field of**

38.03.01 Economics

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(code and name of the direction of training/specialty)

**The course instruction is implemented within the professional education programme of  
higher education**

International Economic Relations

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(name (profile/specialization))

## 1. COURSE GOALS

**The goal of the discipline** is to form a system of knowledge about the system of international gas markets as one of the most important parts of the global energy sector; the state, problems, quantitative guidelines and prospects for the development of foreign economic activity of transnational gas companies.

The study of the discipline is caused by the need for specialists to understand the features of the development of approaches to participation in competition

The discipline refers to courses that deepen theoretical and practical knowledge about management in business.

### **Objectives of the discipline:**

1. analysis of the current state and the main trends in the development of the global and Russian gas sector; determining the role and importance of the gas industry in the energy sector and the national economy;

2. study of the specifics of the functioning of the main gas markets (North American, European, Asia-Pacific). Volume and structure of gas production and consumption in Russia and abroad;

3. mechanisms and conditions for conducting international gas business, the concept, form and procedure for concluding international commercial contracts in the energy sector, features of pricing in the international energy market, types of payments in the international energy business, national and regional features of international energy business;

4. structure and directions of energy supplies, the specifics of exchange trade in energy resources.

5. study of world energy trade, including oil, gas, coal. Structure and directions of supplies, analysis of transport projects in the industry;

6. analysis of the specifics of gas pricing in the Russian and international energy markets;

7. study of the role of international organizations in the global energy supply system (GECEF, OPEC, IEA, etc.);

8. study of the role of transnational and regional companies in the global energy supply system;

9. analysis of the cost structure for individual sectors of the energy sector;

10. study of regional and sectoral specifics of taxation in the global and Russian energy markets;

11. analysis of the effectiveness of hydrocarbon field development projects, the main risks in their implementation;

12. study of investment project management in the energy industry;

13. study of Russia's energy policy: prospects for the production, consumption and export of major energy carriers;

14. energy security analysis and international energy business.

15. A comprehensive analysis of the strategies of foreign countries and companies to participate in international economic and geopolitical competition.

## 2. LEARNING OUTCOMES

Studying the discipline "Gas wars in the 21st century" is aimed at the formation of the following competencies (part of competencies) among students:

*Table 2.1. List of competencies formed in students when studying the discipline (results of mastering the discipline)*

Competence code	Competence	Competence indicators
GPC-1	Able to apply knowledge (at an intermediate level) of economic theory in solving applied problems	GPC-1.1 - Know the conceptual apparatus, basic economic laws and methods of economic science GPC-1.2 - Able to identify economic problems in the analysis of specific situations and argue his position GPC-1.3 - Able to identify the main patterns of economic development and apply them to model the behavior of economic entities
GPC-2	Able to collect, process and statistically analyze the data necessary to solve the set economic problems	GPC-2.1 Able to manage methods and means of collecting, processing and analyzing information necessary to solve standard tasks of a technical and economic assessment of activities in the field of professional activity GPC-2.2 Able to manage methods and means of collecting, processing and analyzing information necessary to solve standard tasks of a technical and economic assessment of activities in the field of professional activity
GPC-3	Able to analyze and meaningfully explain the nature of economic processes at the micro and macro levels	GPC-3.1 Know how to apply theoretical and methodological knowledge about the principles, laws and mechanisms of a market economy at the level of economic entities GPC-3.2 Know how to apply the principles and methods of economic analysis in substantiating the mechanisms and patterns of functioning of the economy at the micro and macro levels GPC-3.3 Able to analyze and explain the driving forces and essence of the nature of economic processes and events occurring in the economy

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline "Gas wars in the 21st century" refers to the part formed by the participants of the educational relations of block B1 of the EP.

Within the framework of the EP, students also master other disciplines and / or practices that contribute to the achievement of the planned results of mastering the discipline "Gas wars in the 21st century".

*Table 3.1. List of Higher Education Programme components / disciplines that contribute to expected learning/training outcomes*

Code	Competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
GPC-1	Able to apply knowledge (at an intermediate level) of economic theory in	World Economy International Economic Relations History	Legal regulation of foreign economic activity International Payment Instruments

<b>Code</b>	<b>Competence</b>	<b>Previous disciplines/modules, practices*</b>	<b>Subsequent disciplines/modules, practices*</b>
	solving applied problems	Global problems of mankind Passport and visa diplomacy Geopolitical and economic interests of the Russian Federation in the world Fundamentals of International Trade Industrial sector of the world economy Analysis and forecasting of market conditions	Islamic Finance
GPC-2	Able to collect, process and statistically analyze the data necessary to solve the set economic problems	World Economy International Economic Relations Economic geography International payments and currency transactions International Financial Markets Fundamentals of International Trade	Insurance of foreign economic activity Free economic zones and offshore companies Foreign economic activity of the regions of the Russian Federation The Global Financial Architecture Islamic Finance Economics and organization of foreign economic activity
GPC-3	Able to analyze and meaningfully explain the nature of economic processes at the micro and macro levels	World Economy International Economic Relations Money, credit, banks Economic Informatics International Financial Markets International trade in high-tech products and technology transition Russia in the Global Economy Trade policy framework Geopolitical and economic interests of the Russian Federation in the world	Analysis and forecasting of market conditions International Payment Instruments Insurance of foreign economic activity Economics and organization of foreign economic activity

#### 4. COURSE WORKLOAD AND LEARNING ACTIVITIES

The total laboriousness of the discipline " Gas wars in the 21st century" is 4 credit units.

TABLE 4.1. Types of academic activities during the period of the HE programme mastering

Type of educational work		TOTAL, academic hours	Semester			
			5	6	7	8
<i>Contact academic hours</i>		34	34			
including:						
Lectures						
Lab work						
Seminars (workshops/tutorials)		34	34			
<i>Self-study (ies), academic hours</i>		92	92			
<i>Evaluation and assessment academic hours</i>		18	18			
<b>Overall laboriousness of the discipline</b>	<i>academic hours</i>	<b>144</b>	<b>144</b>			
	credit units	<b>4</b>	<b>3</b>			

#### 5. COURSE MODULES AND CONTENTS

Table 5.1. The content of the discipline (module) by types of educational work.

Course Modules and Contents	Course Modules and Contents	Type of educational work *
<b>Section 1.</b> The current state and main trends in the development of the world energy market.	Topic 1. The concept, subjects and objects of the world energy market. Topic 2. The history of the development of the energy complex of Russia and the countries of the world. Topic 3. The current state of the energy balance, the role of the gas industry	SC
<b>Section 2.</b> Features of the functioning of world energy markets	Topic 4. North American energy market. Topic 5. European energy market. Topic 6. Asia-Pacific Energy Market.	SC
<b>Section 3.</b> Infrastructure and conditions for conducting international energy business	Topic 7. The concept, form and procedure for concluding international contracts in the energy sector. Types of payments in the international energy business. Topic 8. National and regional features of international business.	SC
<b>Section 4.</b> The role of international organizations and transnational companies in the global energy supply system	Topic 9. The role of international organizations in the global energy supply system. Topic 10. The role of transnational and regional companies in the global energy supply system.	SC
<b>Section 5.</b> Investment projects in the energy sector	Topic 11. The concept, essence and structure of investment projects. Topic 12. The largest investment projects in the energy sector.	SC
<b>Topic 6.</b> Energy policy and energy security of the state	Topic 13. Energy policy and energy security. Topic 14. Energy policy of Russia and the largest regions of the world. Topic 15. Energy security and competition in the gas business.	SC

\* - is filled only in the **full-time** form of training; LC - lectures; LR - laboratory work; SC - seminar classes

## . CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Logistics of discipline*

<b>Name of special placements and placements for independent work</b>	<b>Equipment of special placements and placements for independent work</b>	<b>List of licensed software. Details of the confirming document</b>
Seminary	Auditorium for seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means of multimedia presentations.	MONOBLOCK HP RgoOpe 440 Intel i5 10500T/8 GB/256 GB/audio, 24" Monitor Multimedia Projector Casio XJ-V100W Screen motorized Digis Electra 200*150 Dsem-4303
For independent work of students	Auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	MONOBLOCK HP RgoOpe 440 Intel i5 10500T/8 GB/256 GB/audio, 24" Monitor Multimedia Projector Casio XJ-V100W Screen motorized Digis Electra 200*150 Dsem-4303

## **RESOURCES RECOMMENDED FOR COURSE STUDY**

### **Main reading(sources)**

1. World Economy for Economists: Educational and Methodical Manual / I.V. Andronova [et al.]; Under the general editorship of I.V. Andronova. - Electronic text data. - M.: Izd-vo RUDN, 2018. Electronic resource, access code in the RUDN University library:<http://lib.rudn.ru/ProtectedView/Book/ViewBook/6622>
2. Evolution of world energy markets and its consequences for Russia / ed. by A.A.Makarov, L.M.Grigoriev, T.A.Mitrova. – M. INEI RAN-AC under the Government of the Russian Federation, 2015. – 400 p. – ISBN 978-5-91438-019-6.
3. Energy markets in a period of global change. World development. Issue 15. Holes. ed.: N.V. Toganova, Yu.D. Kvashnin. M.: IMEMO RAN, -2015, -123 p.
4. International Gas Projects of Russia [Text] : European Alliance and Strategic Alternatives / N. S. Karpova, S. N. Lavrov, A. G. Simonov ; Scientific. ed. S. N. Lavrov. - Moscow : TEIS, 2014. - 278 p. : ill.; 22 cm. - (International business yesterday, today, tomorrow).; ISBN 978-5-7218-1350-4
5. Kondratov Dmitry Igorevich Russia's participation in the world energy market: problems and prospects of development // Russian Foreign Economic Herald. 2015. Volume 3 2015, P.91-105.

### **Additional (optional) reading (sources)**

1. Bolkunets D.V. State and features of Russian-Belarusian energy cooperation [text] / D.V. Bolkunets // Vestnik Rossiiskogo universiteta druzhby narodiv: Mezhdunarodnye otnosheniya. - 2014. - №4. - Pp. 120 - 128. <http://journals.rudn.ru/international-relations/article/view/10409/9860>

2. Fedorova E.A. Features of mergers and acquisitions in the Russian Federation on the example of the energy market / E.A. Fedorova, E.I. Izotova // Management in Russia and abroad. - 2014. - №4. - S. 65-72.
3. Simonov A.G. Gas industry of Russia: a resource for the economic integration of Russia and the EU / A.G. Simonov // Bulletin of International Organizations. - 2012. - №4. - S. 248-253.
4. Gilmundinov V.M. Mirovoi energoyn ryok i neftezhnyi complex Rossii // Mir ekonomika i upravleniya. 2004. Volume 4, Issue 1, P.22-43
5. Pashkovskaya I.G. Energy supply of the European Union: eastern direction : Monograph / I.G. Pashkovskaya. - M. :Navona, 2010. - 248 p. - ISBN 978-5-91798-008-9 : 0.00.
6. EU gas market. The Age of Reform. S.I. Melnikova et al. INEI RAS / IE NRU HSE, 2016.
7. Vorobyov A.E. History of oil and gas business in Russia and abroad: a textbook / A.E. Vorobyov, A.V. Sinchenko. – M.: Rossiiskoi universitet družby narodiv, 2013. – 139 p.
8. Dolgushev D.V. Voprosy energonoi security v nachale XXI V. I securing the supply of Russian gas to the North American energy market // Vestnik Tomskogo gosudarstvennogo universiteta. 2011. Issue 353, P.67-69
9. Ivanov A.S., Matveev I.E. World energy market in the conditions of the financial and economic crisis of 2008-2009 // Russian Foreign Economic Herald. 2009. Issue 10, pp.3-16
10. Klyomin A. V. Evropeyskii energoi ryok (starye tsel'i ne ne novye metody) // Actual'nye problemy ekonomiki i prava. 2009. Issue 2 (10), P.178-191
11. Kondratov D.I. Problems and Prospects of Russia's Participation in the World Energy Market // Financial Analytics: Problems and Solutions. 2013. Issue 20, P.7-23
12. Korendyasov E.N.. Atomic-energetic market of Africa: role and place of Russia [Electronic resource] // Asia and Africa today. 2016. URL: <http://dlib.eastview.com/browse/doc/46500834>
13. The Common Energy Market: Will Everyone Benefit? Strategic decisions and risk management. 2016. Issue 1 (94), P.54-54
14. Rusetskaya G.D. Methodology of analysis of the world energy market // BaikalResearchJournal. 2012. Issue 4, P.29
15. Telegina E. Mirovaya energetika: tendencies and perspectives. Mirovoy energicheskii ryok i geozhitel'nye interesy Rossii [Elektronnyi resurs] // Mirovaya ekonomika i mezhdunarodnye otnosheniya. 2003. URL: <http://dlib.eastview.com/browse/doc/5027962>
16. Bratkovsky K.V. Relations between Russia and the European Union in the energy sphere / K.V. Bratkovsky // Vestnik Rossiiskogo universiteta družby narodiv: Mezhdunarodnye otnosheniya. - 2009. - №2. - S. 49-55. <http://journals.rudn.ru/international-relations/article/view/10606/10057>
1. Dukhno S.I. Tendencies of development of state regulation of energy markets / S.I. Dukhno, Zh.V. Pisarenko // Notes of the Mining Institute. - 2008. - T.179. pp. 120-121.
2. Ivanov A.S. Mirovoy energonii ryok na rubezhe 2007-2008 gg.: parameters, tendencies, problems / A.S. Ivanov, I.E. Matveev // Rossiiskoi zanednoe ekonomicheskii vestnik: Monthly nauchno-prakticheskii zhurnal. - 2008. - No 8. - P.66-79.
3. Lead from energy markets. Oil export from Russia to Belarus // Russian Foreign Economic Bulletin. - 2007. - № 1. - S. 44-45.
4. Klimenko A.V. Russia's Place in Global Energy Security [Text] / A.V. Klimenko // Quality of Distance Education. Concepts, problems, solutions (EDQ-2006). - M. : Izd-vo MGIU, 2006. - pp. 135 - 138.

**A list of information sources on the study of sections of the course.**

[www.iea.org](http://www.iea.org) International Energy Agency website  
[www.fas.gov.ru](http://www.fas.gov.ru) – Website of the Federal Antimonopoly Service of the Russian Federation  
[www.minenergo.gov.ru](http://www.minenergo.gov.ru) – Website of the Ministry of Energy of the Russian Federation  
[www.eurasiacommission.org](http://www.eurasiacommission.org) – Eurasian Economic Commission website  
[HTTPS://WWW.OPEC.ORG/OPEC\\_WEB/EN/](https://www.opec.org/OPEC_WEB/EN/) - OPEC website



<https://www.bp.com/en/global/corporate/energy-economics/statistical-review-of-world-energy.html> Statistical Overview of World Energy 2018.

## **8. ASSESSMENT TOOLKIT AND GRADING SYSTEM\* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION**

Evaluation materials and a grading system\* for assessing the level of formation of competencies (part of competencies) based on the results of mastering the discipline "Gas wars in the 21st century" are presented in the Appendix to this Course Syllabus of the discipline

### **AGREED**

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Doctor of Economics, Professor of International  
Economic Relations



**I.V.Andronova**