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**Federal State Autonomous Educational Institution of Higher Education  
Peoples' Friendship University of Russia named after Patrice Lumumba  
RUDN University  
Academy of Engineering**

educational division (faculty/institute/academy) as higher education programme developer

## **COURSE SYLLABUS OF THE DISCIPLINE**

**«Economics and management of oil and gas production / Экономика и управление  
нефтегазовым производством»**

(name of discipline/module)

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

**21.04.01 Oil and gas engineering**

(code and name of the Higher Education Field)

**The development of the discipline is carried out within the framework of the implementation of the higher education program of higher education (Higher Education Program):**

**Technologies for the Production, Transportation and Processing of Oil and Gas**

(name (profile/specialization) of the Higher Education Program)

## 1. COURSE GOALS

The purpose of mastering the discipline «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством» is the formation of a complex of knowledge for the effective implementation of production management processes at the enterprises of the oil and gas industry and in their structural divisions on the basis of organizational and economic knowledge.

The study of the discipline «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством» provides for the acquisition of practical skills in the study of the global oil and gas market, the results and factors of production, methods for assessing the efficiency of resource use in oil and gas production, the formation of production costs and financial results in oil and gas production, the content and functions of enterprise management : entities and types of planning; types of organizational structures of management; motivation; control; information; management decisions.

## 2. LEARNING OUTCOMES

Mastering the discipline «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством» is aimed at developing the following competencies (parts of competencies) among students:

*Table 2.1. The list of competencies formed by students in the course of mastering the discipline (the results of mastering the discipline)*

Competence code	Competence	Competence indicators (within this discipline)
GC-1	Able to search, make a critical analysis of problem situations based on a systematic approach, develop a strategy.	GC-1.1. Knows the methods of critical analysis and evaluation of modern scientific achievements; methods of critical analysis; basic principles of critical analysis. GC-1.2. Can analyze the task, highlighting its basic components, decompose the task; receive new knowledge based on analysis, synthesis, etc.; carry out a critical analyze of information necessary to solve the problem; collect data on complex scientific problems related to the professional field; search for information and solutions based on actions, experiment and experience. GC-1.3. Has the ability to study the problem of professional activity using analysis; synthesis and other methods of intellectual activity; identify scientific problems and use adequate methods to solve them; the skills of value judgments in solving professional situations.
GC-2	Able to manage a project at all stages of its life cycle.	GC-2.1. Knows methods for solving specific problems of the project of the declared quality and within the specified time; the basics of designing and solving a specific project problem, choosing the best way to solve it, based on current legal regulations and available resources and restrictions. GC-2.2. Can formulate, within the framework of the goal of the project, a set of interrelated tasks that ensure its achievement; GC-2.3. Has the skills of forecasting and determining the expected results of solving selected tasks; the skills of public presentation of the results of solving a specific project problem.
GC-3	Able to organize and manage team the work of the team, developing a team strategy to	GC-3.1. Knows the peculiarities of the behavior of selected groups of people with whom he works / interacts, takes them into account in his activities (the choice of categories of

Competence code	Competence	Competence indicators (within this discipline)
GC-1	Able to search, make a critical analysis of problem situations based on a systematic approach, develop a strategy.	GC-1.1. Knows the methods of critical analysis and evaluation of modern scientific achievements; methods of critical analysis; basic principles of critical analysis. GC-1.2. Can analyze the task, highlighting its basic components, decompose the task; receive new knowledge based on analysis, synthesis, etc.; carry out a critical analyze of information necessary to solve the problem; collect data on complex scientific problems related to the professional field; search for information and solutions based on actions, experiment and experience. GC-1.3. Has the ability to study the problem of professional activity using analysis; synthesis and other methods of intellectual activity; identify scientific problems and use adequate methods to solve them; the skills of value judgments in solving professional situations.
	achieve the goal.	groups of people is carried out by an educational organization depending on the goals of training - by age characteristics, by ethnicity or religion, socially unprotected segments of the population, etc.); GC-3.2. Can foresee the results (consequences) of personal actions and plans a sequence of steps to achieve a given result; anticipates the results (consequences) of personal actions and plans a sequence of steps to achieve a given result; GC-3.3. Has the skills to effectively use the cooperation strategy to achieve the set goal, determines his role in the team; effective interaction with other team members, incl. participates in the exchange of information, knowledge and experience, and the presentation of the results of the team's work.
SPC-9	Able to organize the work of performers, find and make management decisions, rules for ensuring the safety of technological processes, as well as personnel when working in the field, in laboratories, in office processing	SPC-9.1 Knows the safety rules and safety precautions when working in the field, in laboratories, during office processing SPC-9.2 Can justify and make management decisions in the field of organization and regulation of labor; conduct briefings on ensuring the safety of technological processes, as well as personnel when working in the field, in laboratories, during office processing SPC-9.3 Has the methodology for ensuring the safety of technological processes, as well as personnel when working in the field, in laboratories, during office processing

### 3. ACADEMIC PROGRAM STRUCTURE

Discipline «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством» refers to the University Disciplines Module of block B1 of the Higher Education Program.

As part of the Higher Education Program, students also master other disciplines and / or practices that contribute to the achievement of the planned results of mastering the discipline «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством».

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

Competence code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
GC-1	Able to search, make a critical analysis of problem situations based on a systematic approach, develop a strategy.	-	SFC
GC-2	Able to manage a project at all stages of its life cycle.	-	SFC
GC-3	Able to organize and manage team the work of the team, developing a team strategy to achieve the goal.	-	SFC
SPC-9	Able to organize the work of performers, find and make management decisions, rules for ensuring the safety of technological processes, as well as personnel when working in the field, in laboratories, in office processing	Technological processes of pipeline transport / Технологические процессы трубопроводного транспорта Modern stream in oil and gas processing in Russia / Современные направления нефтегазопереработки в России Current development of the production of unconventional hydrocarbon resources in the world / Современное развитие добычи нетрадиционных ресурсов углеводородов в мире	Technological practice (production) / Технологическая практика (производственная) Pre-graduate practice / Преддипломная практика SFC

\* - filled in in accordance with the matrix of competencies and the Higher Education Program.

#### 4. COURSE WORKLOAD and ACADEMIC/TRAINING/LEARNING ACTIVITIES

The course total workload for the discipline «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством» is equal to 3 credits.

*Table 4.1. Types of academic activities during the period of the HE programme mastering for full-time education*

Type of study work	TOTAL , acc.hrs.	Semester(s)
		2
<i>Contact academic hours, acc .</i>	<i>34</i>	<i>34</i>
including:		
Lectures		
Laboratory work		
Seminars (workshops/tutorials)	34	34
<i>Self-study (ies), academic hours</i>	<i>74</i>	<i>74</i>
<i>Evaluation and assessment (exam or pass/fail grading)</i>		
<b>The course total workload</b>	acc.hrs.	<b>108</b>
	credits .	<b>3</b>

*Table 4.2. Types of academic activities during the period of the HE programme mastering for part-time form of education*

Type of study work	TOTAL , acc.hrs.	Semester(s)
		2
Contact academic hours, acc .	36	36
including:		
Lectures		
Laboratory work		
Seminars (workshops/tutorials)	36	36
Self-study (ies), academic hours	63	63
Evaluation and assessment (exam or pass/fail grading)	9	9
<b>The course total workload</b>	acc.hrs.	<b>108</b>
	credits .	<b>3</b>

## 5. COURSE MODULE and CONTENTS

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

Name of the section (topic) of the discipline	Contents of the section (topic)	Type of study work
Section 1. Organizational foundations for the functioning of enterprises	Topic 1.1. An industrial enterprise as a complex production system. Organizational and legal forms of commercial enterprises. Corporate forms of management in the oil and gas complex.	Seminar
	Topic 1.2. General characteristics of the enterprises of the oil and gas complex as an object of organization. Types of industrial production. The composition and structure of the manufacturing enterprise.	Seminar
Section 2. The effectiveness of the introduction of new equipment and advanced technology at oil and gas industry facilities	Topic 2.1. Planning the implementation of new equipment and advanced technology at oil and gas facilities	Seminar
	Topic 2.2. Determination of the effect from the implementation of measures aimed at improving the reliability and efficiency of the operation of technological equipment for oil and gas production.	Seminar
Section 3. Organization of innovative activity of the enterprise	Topic 3.1. The content and objectives of innovation.	Seminar
	Topic 3.2. Organization of research work at the enterprise. Organization of design preparation of production.	Seminar
	Topic 3.3. Organization of technological preparation of production. Strategy for the development of the production potential of the enterprise.	Seminar

## 6. CLASSROOM EQUIPMENT and TECHNOLOGY SUPPORT REQUIREMENTS

- *Table 6.1. Classroom Equipment and Technology Support Requirements*

Classroom for Academic Activity Type	Classroom equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture	Training room for conducting lecture-type classes: room. No. 335 A set of specialized furniture; technical means: projection screen; multimedia projector SANYO PROxtraX ; system block DEPO Neos 220	
Seminar	Classroom for conducting seminar-type classes: room. No. 356 A set of specialized furniture; chalk board; monitor NEC PLASMA MONITO MODEL PX-42XM1G; system block DEPO Neos 220	
For self-study	Classroom for conducting seminar-type classes: room. No. 356 A set of specialized furniture; chalk board; monitor NEC PLASMA MONITO MODEL PX-42XM1G; system block DEPO Neos 220	

## 7. Recommended Sources for Course Studies

### *Main reading(sources):*

1. Krayushkina, M.V. Economics and «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством»: study guide / M.V. Krayushkin; Ministry of Education and Science of the Russian Federation, Federal State Autonomous Educational Institution of Higher Professional Education "North Caucasian Federal University". - Stavropol: NCFU, 2014. - 156 p.  
<http://biblioclub.ru/index.php?page=book&id=457397>
2. Eremenko, O.V. Innovative technologies of personnel management in the oil and gas industry: study guide / O.V. Eremenko. - Moscow; Berlin: Direct-Media, 2017. - 192 p. :  
<http://biblioclub.ru/index.php?page=book&id=455580>

### **Additional literature:**

1. Zhukov, B.M. Research of control systems: textbook / B.M. Zhukov, E.N. Tkachev. - Moscow: Publishing and Trade Corporation "Dashkov and Co", 2017. - 207 p.  
<http://biblioclub.ru/index.php?page=book&id=495774>
2. Antsupov, A.Ya. Strategic management / A.Ya. Antsupov ; Institute for Development Strategy. - 3rd edition, rev. and rework. - Moscow: Technosphere, 2015. - 344 p.  
<http://biblioclub.ru/index.php?page=book&id=4448483>. Mstislavskaya L.P. Oil and Gas Production (Issues, Problems, Solutions): Textbook. – M.: Russian State University of Oil and Gas, 1999.

### *Internet-(based) sources:*

1. ELS of RUDN University and third-party ELS, to which university students have access on the basis of concluded agreements:  
RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>  
- ELS "University Library Online" <http://www.biblioclub.ru>  
- EBS Yurayt <http://www.biblio-online.ru>

- ELS "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EBS "Lan" <http://e.lanbook.com/>
- EBS "Trinity Bridge"

## 2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevier.com/locate/scopus/>

### *Learning toolkits for self- studies in the RUDN LMS TUIS:*

1. Guidelines for students on mastering the discipline "«Economics and management of oil and gas production / Экономика и управление нефтегазовым производством»."

\* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline **in TUIS!**

## 8. EVALUATION ASSESSMENT AND EVALUATION TOOLKIT

Marking criteria (MC) and a 100-point (score) scale for assessing the level of competencies (parts of competencies) based on the results of mastering the discipline «Economics and management of oil and gas production / Экономика и управление нефтегазовым производством» are presented in the Appendix to this Work Program of the discipline.

\* - MC and the 100-point (score) scale are formed on the basis of the requirements of the relevant local normative act of the Peoples' Friendship University of Russia.

### DEVELOPERS:

Associate Professor of the Department of Mineral  
Developing and Oil&Gas Engineering

Position, Department



Signature

Chekushina T.V.

Full name

#### Head of Department:

Director of the Department of Mineral  
Developing and Oil&Gas Engineering

Name of Department



Signature

Kotelnikov A.E.

Full name

#### Head of Educational Programme:

Associate Professor of the Department of Mineral  
Developing and Oil&Gas Engineering

Position, Department



Signature

Tyukavkina O.V.

Full name