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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

**Project management in the oil and gas industry / Управление проектами в
нефтегазовой отрасли**

(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 "Project management in the oil and gas industry / Управление проектами в нефтегазовой отрасли" is to gain knowledge, skills and experience in the field of project management in the oil and gas industry. The acquired knowledge and skills characterize the stages of the formation of competencies and ensure the achievement of the planned results of mastering the educational program.

- The aims of the course are:
- To study the methodology of project management in the oil and gas industry.
- To study the principles and processes, the phase approach in the management of large projects.
- To study the stages of design in the development of oil and gas fields.
- To form the skills of managing large projects at all stages of the life cycle.
- Develop project cost management skills.
- Develop project risk management skills.
- To master the calendar-resource planning and preparation of the contract strategy of the project.
- Learn how to add value to a project.
- To master project management within the matrix structure.
- Master the analysis and application of best practices for project implementation.

2. LEARNING OUTCOMES

Mastering the discipline "Project management in the oil and gas industry / Управление проектами в нефтегазовой отрасли" 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

		<p>restrictions.</p> <p>GC-2.2. Can formulate, within the framework of the goal of the project, a set of interrelated tasks that ensure its achievement;</p> <p>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.</p>
GC-3	Able to organize and manage team the work of the team, developing a team strategy to achieve the goal	<p>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 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.);</p> <p>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;</p> <p>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.</p>
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	<p>SPC-9.1 Knows the safety rules and safety precautions when working in the field, in laboratories, during office processing</p> <p>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</p> <p>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</p>

3. ACADEMIC PROGRAM STRUCTURE

Discipline "Project management in the oil and gas industry / Управление проектами в нефтегазовой отрасли" 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 "Project management in the oil and gas industry / Управление проектами в нефтегазовой отрасли".

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	-	Pre-graduate practice / Преддипломная практика 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 of the discipline "Project management in the oil and gas industry / Управление проектами в нефтегазовой отрасли" 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
Contact academic hours, acc .	34	34
including:		
Lectures		
Laboratory work		
Seminars (workshops/tutorials)	34	34
Self-study (ies), academic hours	74	74
Evaluation and assessment (exam or pass/fail grading)		
The course total workload	acc. hrs.	108
	credits .	3

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
<i>Contact academic hours, acc .</i>	34	36
including:		
Lectures		
Laboratory work		
Seminars (workshops/tutorials)	34	36
<i>Self-study (ies), academic hours</i>	74	63
<i>Evaluation and assessment (exam or pass/fail grading)</i>		9
The course total workload	acc.hrs.	108
	credits .	3

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. Fundamentals of project management	Topic 1.1. Project stages, Artifact concept, distribution of artifacts by project stages, main project artifacts (IT);	Seminar
	Topic 1.2. Types of customers, RACI matrix.	Seminar
Section 2. The golden triangle of the manager	Topic 2.1. Triangle Manager, how to manage the sides of a triangle	Seminar
	Topic 2.2. Priority matrix, reporting to the customer of the restrictions in the project.	Seminar
Section 3. Collection and analysis of information before the start of the project	Topic 3.1. Key questions for understanding the project.	Seminar
	Topic 3.2. What is MVP and release plan.	Seminar
	Topic 3.3. Decomposition of tasks and what it happens.	Seminar
Section 4. Development of a project implementation plan	Topic 4.1. What resources need to be assessed for the implementation of the project, from which the final deadline for the project is formed.	Seminar
	Topic 4.2. How to prioritize work and form releases, what external factors affect the project.	Seminar
Section number 5. Management of risks	Topic 5.1. Market analysis, competitor analysis;	Seminar
	Topic 5.2. Target audience analysis;	Seminar
Section number 6. Budgeting and Unit Economics	Topic 6.1. Elements of the estimate, Unit-economy.	Seminar
	Topic 6.2. Basic metrics.	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	

Classroom for Academic Activity Type	Classroom equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	PROtraX ; 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. International business in the oil and gas industry: textbook / Ed. Yu. N. Linnik, V. Ya. Afanasiev, A. S. Kazak. - Moscow: INFRA-M, 2016.
2. Meredith J. Project management: textbook: per. from English. / J. Meredith, S. ml. Mantel . - St. Petersburg [and others]: Peter, 2014.
3. Fundamentals of management (oil and gas industry): textbook for universities / A.F. Andreev [i dr.]. - M.: Oil and gas, Publishing House of the Russian State University of Oil and Gas, 2007.
4. Project management: a textbook for universities / V. N. Ostrovskaya [and others]. - St. Petersburg [and others]: Lan, 2018.

Additional(optional) reading (sources):

1. Jen F. Exploration and production of hydrocarbons: Per. from English. / F. Jen, M. Cook, M. Graham. - Moscow: Premium Engineering, Technopress , 2013.
2. Johnston Daniel Analysis of the economics of exploration, risks and agreements in the international oil and gas industry: Per. from English / Daniel Johnston . - M.: Olimp-Business, 2005.
3. Corporate management: textbook for universities / I. I. Mazur [and others]. - M.: Omega-L, 2008.
4. Rose P. R. Risk analysis and management of oil and gas exploration projects: per. from English. / P. R. Rose. - Moscow Izhevsk: Institute of Computer. issled ., 2011.
5. Management of large capital projects: textbook / V.L. Voevodkin, E.G. Zubarev, S. Yu. Karamyan, O.R. Rykov. - M.: LLC "3D-Marketing", 2019. - 184 p.
6. Project management: textbook for universities / I. I. Mazur [and others]. - Moscow: Omega-L, 2014.

Internet-(based) sources:

- 1. Electronic libraries with access for RUDN students:
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
- EBS "Lan" <http://e.lanbook.com/>
- EBS "Trinity Bridge"

2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.entd.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 "Project management in the oil and gas industry / Управление проектами в нефтегазовой отрасли".

* - 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. ASSESSMENT AND EVALUATION TOOLKIT

Marking criteria (MC) and a 100-point (score) scale for evaluating the level of competencies (parts of competencies) based on the results of mastering the discipline "Project management in the oil and gas industry / Управление проектами в нефтегазовой отрасли" 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:

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

Position, Department



Signature

Khakimov R.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