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Информация о владельце:

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Уникальный программный ключ:

ca953a0120d891083f939673078ef1a989dae18Institute of Environmental Engineering

(наименование основного учебного подразделения (ОУП)-разработчика ОП ВО)

COURSE SYLLABUS

Standards of environmental management and occupational safety

(наименование дисциплины/модуля)

Recommended by the Methodological Council for the Education Field:

05.04.06 Ecology and nature management

(код и наименование направления подготовки/специальности)

The discipline is mastered within the framework of the main professional higher education program:

Economics of natural resources management

(наименование (профиль/специализация) ОП ВО)

1. COURSE GOALS

The purpose of the discipline is to get acquainted with modern international standards on environmental management, first of all the ISO 14000 group. In the course there will be considered stages of the development and implementation of standards, practical steps on the support of the regulatory system in the organization in order to achieve environmental improvements and regulate the environmental protection issues.

2. LEARNING OUTCOMES

The mastering of the discipline "Standards of environmental management and occupational safety" is aimed at the formation of the following competencies (parts of competencies) in students:

Table 2.1. List of competencies formed by students during the development of the

discipline (LEARNING OUTCOMES)

•	Commentered	Indicators of competence achievement			
Code	Competence	(within the framework of this discipline)			
	Able to apply	GPC -3.1 Knows the principles and methods of			
	environmental research	environmental monitoring of environmental components			
	methods to solve research	GPC -3.2 Owns analytical methods for monitoring			
GPC-3	and applied problems of	pollutants and physical impacts and processing the			
GI C-3	professional activity	information received			
		GPC -3.3 Able to develop systems for environmental			
		monitoring and control in production and solve applied			
		problems in professional activities			
	Able to use modern	SPC-4.1 Able to apply modern methods of processing and			
	methods of processing and	interpreting environmental information when conducting			
	1 &	industrial research			
SPC-4	information in scientific	SPC-4.2 Able to interpret the results of studies in terms of			
D1 C-4	and industrial research	compliance with safety and performance indicators			
		SPC-4.3 Has the skills to conduct control and supervisory			
		activities based on modern methods of processing			
		environmental information			
	Able to develop standard	SPC-6.1 Capable of detecting inconsistencies in the state of			
	environmental measures	environmental components with the requirements of			
	and assess the impact of	national and international standards			
SPC-6	planned facilities or other	SPC-6.2 Able to develop programs for monitoring natural			
	forms of economic	complexes under conditions of technogenic loads and			
	activity on the	programs for environmental rehabilitation of territories			
	environment				

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline "Standards of environmental management and occupational safety" refers to Compulsory Disciplines of the Higher Education Program.

Within the framework of the higher education program, students also master other disciplines and/or practices that contribute to expected learning outcomes of the discipline "Standards of environmental management and occupational safety".

Table 3.1. List of Higher Education Program components that contribute to expected

learning outcomes

Code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
GPC-3	Able to apply environmental research methods to solve research and applied problems of professional activity	Estimations of natural resources / Оценки природных ресурсов Economic aspects of natural resources management / Экономические аспекты природопользования Научно-исследовательская работа / Research work	Моdern technologies for nature protection / Современные технологии защиты окружающей среды Мападетен оf energy resources / Менеджмент ресурсов энергетики Мападетен оf water resources / Управление водными ресурсами Environmental-economic aspects of environmental projects / Эколого-экономических проектов Environmental noms for sustainability / Экологических проектов Environmental noms for sustainability / Экологические нормы для устойчивого развития Standards of environmental management and оссираtional safety / Стандарты экологического менеджмента и охраны труда Оссираtional safety and HSE-audit / Охрана труда и HSE-ayдит Wastes: Landfills, Processing and Recycling / Отходы: хранение, захоронение, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент Учебная практика / Educational practice Производственная практика / Production practice HИР / Research work

Code	Competence	Previous Disciplines	Subsequent Disciplines (Modules)
		(Modules)	Преддипломная практика /
SPC-4	Able to use modern methods of processing and interpreting environmental information in scientific and industrial research	Estimations of natural resources / Оценки природных ресурсов Management of environmental-economic risks / Управление эколого-экономическими рисками	Мападетент of water resources / Управление водными ресурсами Environmental-economic aspects of environmental projects / Эколого-экономические аспекты экологических проектов Environmental statistics / Экологическая статистика Environmental accounting and reporting / Экологический учет и отчетность Wastes: Landfills, Processing and Recycling / Отходы: хранение, захоронение, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент Учебная практика / Educational practice Научно-исследовательская работа / Research work Производственная практика / Production practice НИР / Research work Преддипломная практика / Pre-graduate practice
SPC-6	Able to develop standard environmental measures and assess the impact of planned facilities or other forms of economic activity on the environment	Management of natural resources / Менеджмент природных ресурсов Modern technologies for nature protection / Современные технологии защиты окружающей среды Industrial nature management and economics / Промышленное природопользование и экономика Economic aspects of natural resources management /	Management of energy resources / Менеджмент ресурсов энергетики Environmental noms for sustainability / Экологические нормы для устойчивого развития Environmental statistics / Экологическая статистика Environmental accounting and reporting / Экологический учет и отчетность Wastes: Landfills, Processing and Recycling / Отходы:

Code	Competence	Previous Disciplines	Subsequent Disciplines	
Couc		(Modules)	(Modules)	
		Экономические аспекты	хранение, захоронение,	
		природопользования	рециклинг	
		Standards of environmental	Surface water quality:	
		management and	modeling and management /	
		occupational safety /	Качество поверхностных	
		Стандарты экологического	вод: моделирование и	
		менеджмента и охраны	менеджмент	
		труда	Industrial safety /	
		Occupational safety and	Промышленная	
		HSE-audit / Охрана труда и	безопасность	
		HSE-аудит	Simulation and prevention of	
			accidents / Моделирование	
			и предупреждение аварий	
			Учебная практика /	
			Educational practice	
			Производственная практика	
			/ Production practice	
			Научно-исследовательская	
			работа / Research work	
			НИР / Research work	
			Преддипломная практика /	
			Pre-graduate practice	

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

Workload of the course «Standards of environmental management and occupational safety» is 3 ECTS.

Table 4.1. Types of academic activities during the period of the HE program mastering

Programos nosotro		TOTAL	Semesters			
Вид учебной работы	IOTAL	1	2	3	4	
Contact academic hours	34	34				
Incl.:						
Lectures	17	17				
Lab work						
Seminars	17	17				
Self-study	47	47				
Evaluation and assessment	27	27				
Total workload	Ac.hours	108	108			
EC'		3	3			

5. COURSE CONTENTS

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

Name of the discipline section	Content of the section (topics)	Type of academic activity*
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Management Basics	Product and technology life cycle. The strategic goals of the firm. Company mission Building a SWOT analysis matrix Analysis of the system of environmental management standards	Lectures, Seminars
Introduction to the subject. Professional risks and methods of their management	Study of the structure and content of the OHSAS 18001 standard. Development of an enterprise	Lectures, Seminars
Regulatory and methodological base of labor protection at enterprises and organizations.	Development of an audit plan. Drawing up checklists.	Lectures, Seminars
Creation of professional safety management systems	Evaluation of the effectiveness of the management system based on the requirements of ISO 14031	Lectures, Seminars

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Classroom for Academic Activity Type	CLASSROOM EQUIPMENT	Specialized learning, laboratory equipment, software and materials for the mastering the course
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	-
Seminars	Classroom, equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, Stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype	-
Self-studies	An 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 an electronic information and educational environment.	-

7. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

NEBOSH Support Materials. URL: https://www.nebosh.org.uk/course-materials/

Additional sources:

- 1. Ledashcheva T. N., Pinaev V. E. Environmental support of projects in Russia–modern practices. 2019..
- 2. Ледащева Т. Н., Пинаев В. Е. Environmental impact fee calculation in Russia for EIA-modern practices. 2019.
- 3. Carpi M., Bruschini M., Burla F. HSE Management Standards and burnout dimensions among rehabilitation professionals //Occupational Medicine. −2021. − T. 71. − №. 4-5. − C. 204-210.
- 4. Falahati M. et al. Model of the selection KPI for assessing the performance of the urban HSE management system //Iran Occupational Health. $-2019. -T. 16. -N_{\odot}. 1. -C. 60-71.$
- 5. Hooshmand H. A review of HSE management in construction industry & reduction of work-related accidents //Civil and Project Journal. 2020. T. 2. №. 6. C. 11-28.

Internet-sources:

- 1. Electronic library system of the RUDN and third-party electronic library systems, to which university students have access on the basis of concluded contracts:
 - electronic library system of the RUDN University http://lib.rudn.ru/MegaPro/Web
- electronic library system «Университетская библиотека онлайн» http://www.biblioclub.ru
 - electronic library system Юрайт http://www.biblio-online.ru
 - electronic library system «Консультант студента» www.studentlibrary.ru
 - electronic library system «Лань» http://e.lanbook.com/
 - electronic library system «Троицкий мост»
 - 2. Databases and search engines:
- electronic fund of legal and regulatory and 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.elsevierscience.ru/products/scopus/

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Educational and methodological materials for independent work of students during the development of the discipline/ module *:

- 1. A course of lectures on the discipline "Standards of environmental management and occupational safety ".
- * all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in the Telecommunication educational and Information System!

8. MID-TERM ASSESSMENT AND EVALUATION TOOLKIT

Evaluation materials and a point-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "Standards

of environmental management and occupational safety" are presented in the Appendix to this Work Program of the discipline.

* - evaluation toolkit and ranking system are formed on the basis of the requirements of the relevant local regulatory act of the RUDN (regulations / order).

DEVELOPER:		
Assoc. Professort of the	/3/1	Pinaev V.E.
ESandPQM Department	12)1	
Position, Department	Signature	Name
HEAD OF THE DEPARTMENT:	8 0	
Head of the Department of	Ceeel	
Environmental Safety and		Savenkova E.V.
Product Quality Management		
Department	Signature	Name
HAED OF THE HIGHER		
EDUCATION PROGRAM:	(B)	
Professor of the Department of	8/11 —	
Environmental Safety and		Redina M.M.
Product Quality Management		
Position, Department	Signature	Name