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Информация о владельце:

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Должность: Ректор

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Уникальный программный ключ:

ca953a0120d891083f939673078ef1a989dae18 Institute of Environmental Engineering

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

COURSE SYLLABUS

International collaboration

(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:

УПРАВЛЕНИЕ ПРИРОДОПОЛЬЗОВАНИЕМ / NATURE MANAGEMENT

(наименование (профиль/специализация) ОП ВО)

1. COURSE GOALS

The course is aimed on extended study of international collaboration in the field of ecology, environmental protection, nature management and sustainability.

2. LEARNING OUTCOMES

The mastering of the discipline "International collaboration" 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) VK-2.2; VK-5.1; VK-5.2; VK-5.3 ПК-5.2; ПК-5.3;

		S) YK-2.2; YK-5.1; YK-5.2; YK-3.3 IIK-5.2; IIK-5.3; Indicators of competence achievement				
Code	Competence	(within the framework of this discipline)				
	Способен управлять	УК-2.2 способен разрабатывать концепцию проекта,				
	проектом на всех этапах	формулирует цель, задачи, обосновывает				
X 77.0 O	его жизненного цикла.	актуальность, ожидаемые результаты и сферы их				
УК-2	,	применения				
GC-2	Able to manage a project at	GC-2.2 is able to develop the concept of the project,				
	all stages of its life cycle.	formulates the goal, objectives, justifies the relevance,				
		expected results and scope of their application				
		УК-5.1. знает основные категории философии,				
	Способен анализировать и	законы исторического развития, основы				
	учитывать разнообразие	межкультурной коммуникации				
	культур в процессе	GC-5.1 knows the main categories of philosophy, the				
	межкультурного	laws of historical development, the basics of intercultural				
	взаимодействия.	communication				
	A 1-1 - 4 1 4 - 1	УК-5.2 умеет вести коммуникацию в мире				
	Able to analyze and take into account the diversity of	культурного многообразия и демонстрировать				
	cultures in the process of	взаимопонимание между обучающимися —				
	intercultural interaction	представителями различных культур с соблюдением этических и межкультурных норм				
	intercultural interaction	GC-5.2 is able to communicate in a world of cultural				
УК-5		diversity and demonstrate mutual understanding between				
GC -5		students - representatives of different cultures in				
		compliance with ethical and intercultural norms				
		УК-5.3. владеет практическими навыками анализа				
		философских и исторических фактов, оценки				
		явлений культуры; способами анализа и пересмотра				
		своих взглядов в случае разногласий и конфликтов в				
		межкультурной коммуникации				
		GC-5.3 owns the practical skills of analyzing				
		philosophical and historical facts, evaluating cultural				
		phenomena; ways of analyzing and revising one's views				
		in case of disagreements and conflicts in intercultural				
		communication				
ПК-5	Способен разрабатывать	ПК-5.2. Владеет навыками оценки воздействия				
SPC-5	типовые природоохранные	планируемых сооружений или иных форм				
	мероприятия и проводить	хозяйственной деятельности на окружающую среду				

Code	Competence	Indicators of competence achievement (within the framework of this discipline)				
	оценку воздействия	SPC-5.2 Has the skills to assess the impact of planned				
	планируемых сооружений	structures or other forms of economic activity on the				
	или иных форм	environment				
	хозяйственной	ПК-5.3 Знает требования к подготовке и реализации				
	деятельности на	программ экологической модернизации				
	окружающую среду	предприятий, внедрения НДТ, организации				
		экологического мониторинга, учета и отчетности				
	Is able to develop standard	SPC-5.3 Knows the requirements for the preparation and				
	environmental protection	implementation of environmental modernization				
	measures and assess the	programs of enterprises, the introduction of BAT, the				
	impact of planned structures	organization of environmental monitoring, accounting				
	or other forms of economic	and reporting				
	activity on the environment					

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline "His International collaboration " 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 "International collaboration".

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

learning outcomes

Code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
GC -2	Able to use special and new sections of ecology, geoecology and nature management in solving research and applied problems of professional activity.		Экологическое проектирование промышленных объектов / Environmental design of industrial facilities Научно-исследовательская работа в семестре, включая курсовые работы / Research work in the semester, including term рарегя Производственная практика / Production practice
УК-5 GC -5	Способен анализировать и учитывать разнообразие культур в процессе межкультурного взаимодействия. Able to analyze and take into account the	Философские проблемы естествознания / Philosophical problems of nature science Современные проблемы экологии и природопользовани	Устойчивое развитие / Sustainable development Методология научного творчества / Methodology of scientific creativity

Code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
Code IIK-5 SPC-5	diversity of cultures in the process of intercultural interaction Способен разрабатывать типовые природоохранные мероприятия и проводить оценку воздействия планируемых сооружений или иных форм хозяйственной деятельности на окружающую среду Is able to develop standard environmental protection measures and assess the impact of planned structures or other forms of economic activity on the environment	_	Subsequent Disciplines (Modules) Сертификация сырья, производственных процессов и продукции по международным экологическим требованиям / Certification of raw materials, production processes and products in accordance with international environmental requirements Радиоэкологическая безопасность территорий / Radioecological safety of territories HSE менеджмент / HSE- management Экологическое проектирование промышленных объектов / Environmental design of industrial facilities Современные методы и технологии защиты окружающей среды / Modern methods and technologies of environmental protection
			окружающей среды / Modern methods and technologies of

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

Workload of the course « International collaboration » is 2 ECTS.

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

Deve verson at no former	TOTAL	Semesters				
Вид учебной работы	IOIAL	1	2	3	4	
Contact academic hours						
Incl.:						
Lectures	17		17			
Lab work						

Dur weeken i nekem i	TOTAL	Semesters				
Вид учебной работы	IOIAL	1	2	3	4	
Seminars	17		17			
Self-study	11		11			
Evaluation and assessment	27		27			
Total workload	Ac.hours	72		72		
1 Otal Workload	ECTS	2		2		

5. COURSE CONTENTS

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

Introduction General ideas about the necessity and methods of implementing international cooperation in the field of nature protection Absolute dependence of man on flora and fauna. The biosphere as a human habitat that has no state borders. The necessity and contradictory nature of international cooperation in the protection and rational use of flora and fauna. The main forms of international cooperation in the field of environmental protection and nature management. International cooperation in the field of wildlife protection and nature management, as a compromise of nature management. The main mechanisms of international cooperation. Examples of the Examples of the implementation of international cooperation in the field of nature protection on Seminars	Name of the discipline section	Content of the section (topics)	Type of academic activity*
field of nature protection Absolute dependence of man on flora and fauna. The biosphere as a human habitat that has no state borders. The necessity and contradictory nature of international cooperation in the protection and rational use of flora and fauna. The main forms of international cooperation in the field of environmental protection and nature management. International cooperation in the field of wildlife protection and nature management, as a compromise of nature management. The main mechanisms of international cooperation. Examples of the implementation of international cooperation in the field of nature protection on the example of the main global conventions. Rio Declaration on Environment and Development. The UN Framework Convention on Climate Change. The UN Convention on Biological Diversity. The Kyoto Protocol as an implementation of the UN Framework Convention on Climate Change. UNESCO, United Nations Educational, Scientific and Cultural Organization. UNESCO Program "Man and the Biosphere" (MAB). The Rome Convention. International trade in endangered species of wild fauna and flora as one of the main factors in reducing species diversity. plants and animals on planet Earth (CITES	Introduction	General ideas about the necessity and methods of	
international cooperation in the protection and rational use of flora and fauna. The main forms of international cooperation in the field of environmental protection and nature management. International cooperation in the field of wildlife protection and nature management, as a compromise of nature management. The main mechanisms of international cooperation. Examples of the implementation of international cooperation in the field of nature protection on the example of the main global conventions. Rio Declaration on Environment and Development. The UN Framework Convention on Climate Change. The UN Convention on Biological Diversity. The Kyoto Protocol as an implementation of the UN Framework Convention on Climate Change. UNESCO, United Nations Educational, Scientific and Cultural Organization. UNESCO Program "Man and the Biosphere" (MAB). The Rome Convention. International trade in endangered species of wild fauna and flora as one of the main factors in reducing species diversity. plants and animals on planet Earth (CITES		field of nature protection Absolute dependence of man on flora and fauna. The biosphere as a human habitat that has no	Seminars
rational use of flora and fauna. The main forms of international cooperation in the field of environmental protection and nature management. International cooperation in the field of wildlife protection and nature management, as a compromise of nature management. The main mechanisms of international cooperation. Examples of the implementation of international cooperation of the example of the main global conventions. Rio Declaration on Environment and Development. The UN Framework Convention on Climate Change. The UN Convention on Biological Diversity. The Kyoto Protocol as an implementation of the UN Framework Convention on Climate Change. UNESCO, United Nations Educational, Scientific and Cultural Organization. UNESCO Program "Man and the Biosphere" (MAB). The Rome Convention. International trade in endangered species of wild fauna and flora as one of the main factors in reducing species diversity. plants and animals on planet Earth (CITES		The necessity and contradictory nature of	
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Examples of the Examples of the implementation of international cooperation. Examples of the implementation of international cooperation of international cooperation of international cooperation of international cooperation on the example of the main global conventions. Rio Declaration on Environment and Development. The UN Framework Convention on Climate Change. The UN Convention on Biological Diversity. The Kyoto Protocol as an implementation of the UN Framework Convention on Climate Change. UNESCO, United Nations Educational, Scientific and Cultural Organization. UNESCO Program "Man and the Biosphere" (MAB). The Rome Convention. International trade in endangered species of wild fauna and flora as one of the main factors in reducing species diversity. plants and animals on planet Earth (CITES			
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implementation of international cooperation of international cooperation of the example of the main global conventions. Rio Declaration on Environment and Development. The UN Framework Convention on Climate Change. The UN Convention on Biological Diversity. The Kyoto Protocol as an implementation of the UN Framework Convention on Climate Change. UNESCO, United Nations Educational, Scientific and Cultural Organization. UNESCO Program "Man and the Biosphere" (MAB). The Rome Convention. International trade in endangered species of wild fauna and flora as one of the main factors in reducing species diversity. plants and animals on planet Earth (CITES	Examples of the		Lectures.
	implementation of international cooperation	the example of the main global conventions. Rio Declaration on Environment and Development. The UN Framework Convention on Climate Change. The UN Convention on Biological Diversity. The Kyoto Protocol as an implementation of the UN Framework Convention on Climate Change. UNESCO, United Nations Educational, Scientific and Cultural Organization. UNESCO Program "Man and the Biosphere" (MAB). The Rome Convention. International trade in endangered species of wild fauna and flora as one of the main factors in reducing species diversity. plants and animals on planet Earth (CITES	Seminars
Berne Convention.		Rerne Convention	

International	non-	International non-governmental environmental	Lectures,
governmental		organizations and their role in international	Seminars
environmental		cooperation in the field of OS protection	
organizations		International Whaling Commission (IWC).	
		International Union for Conservation of Nature	
		(IUCN).	
		World Wildlife Fund (WWF)	

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:

1. Monkelbaan J. Governance for the sustainable development goals //Singapura: Spinger. -2019.

Additional sources:

- 1) Allen, C., Metternicht, G., & Wiedmann, T. (2016). National pathways to the Sustainable Development Goals (SDGs): A comparative review of scenario modelling tools. Environmental Science & Policy, 66, 199-207.
- 2) van den Bergh, J. C., and Marjan W. Hofkes, eds. Theory and implementation of economic models for sustainable development. Vol. 15. Springer Science & Business Media, 2013.
- 3) Corbett, H., & Swibold, S. (2002). Guide to sustainable development and environmental policy. Duke University Press.

- 4) Jolink, A., & Niesten, E. (2015). Sustainable development and business models of entrepreneurs in the organic food industry. Business Strategy and the Environment, 24(6), 386-401.
- 5) König, J., Suwala, L., & Delargy, C. (2021). Helix models of innovation and sustainable development goals (pp. 473-487). Springer International Publishing.
- 6) Plumecocq, G., Debril, T., Duru, M., Magrini, M. B., Sarthou, J. P., & Therond, O. (2018). The plurality of values in sustainable agriculture models. Ecology and Society, 23(1).
 - 7) Robertson, G. P. (2015). A sustainable agriculture? Daedalus, 144(4), 76-89.
- 8) Van Soest, H. L., Van Vuuren, D. P., Hilaire, J., Minx, J. C., Harmsen, M. J., Krey, V., ... & Luderer, G. (2019). Analysing interactions among sustainable development goals with integrated assessment models. Global Transitions, 1, 210-225.
- 9) Vaquero-García, A., Álvarez-García, J., & Peris-Ortiz, M. (2017). Urban models of sustainable development from the economic perspective: Smart cities. In Sustainable Smart Cities (pp. 15-29). Springer, Cham.
- 10) Zucchella, A., & Previtali, P. (2019). Circular business models for sustainable development: A "waste is food" restorative ecosystem. Business Strategy and the Environment, 28(2), 274-285.URL:

https://www.google.com/books?hl=ru&lr=&id=qRYsEAAAQBAJ&oi=fnd&pg=PA11&dq=book+ecology&ots=T1QuTNW1uM&sig=yd2pOCR_Il67KmxmnriHZQ9zCN0

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 "International collaboration".
- * 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 "

International collaboration " 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).

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Professor of the Department of Environmental Safety and Product Quality Management	<i>M</i> -	Redina M.M.
Position, Department	Signature	Name
HEAD OF THE DEPARTMENT: Head of the Department of Environmental Safety and Product Quality Management	Eeseef	Savenkova E.V.
Department	Signature	Name
HAED OF THE HIGHER EDUCATION PROGRAM: Professor of the Department of Environmental Safety and Product Quality Management	<i>M</i> -	Redina M.M.
Position, Department	Signature	Name