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Institute of Environmental Engineering

PRACTICE PROGRAM PRE-GRADUATE PRACTICE (наименование практики) **PRE-GRADUATE** (вид практики: учебная, производственная) **Recommended by the Methodological Council for the Education Field:** 05.04.06 «Ecology and Nature Management» (код и наименование направления подготовки/специальности) Practical training of students is conducted within the framework of the implementation of the higher education program:

«Economics of natural resources management» (наименование (профиль/специализация) ОП ВО)

1. THE PURPOSE OF THE PRACTICE

The purpose of the "Pre-graduate practice of a master's student" is expansion of professional knowledge acquired by masters in the course of training, formation of practical skills and skills of conducting independent research work, practical participation in research work of research teams, as well as collection, analysis and generalization of scientific material, development of original scientific ideas for the preparation of a master's thesis. Pregraduate practice is conducted to complete the final qualifying work and is mandatory

2. REQUIREMENTS FOR THE RESULTS OF TRAINING BASED ON THE RESULTS OF THE INTERNSHIP

The implementation of the "Pre-graduate practice of a master's student" is aimed at the formation of the following competencies among students:

Table 2.1. List of competencies formed by students during the internship (results of training based on the results of practice)

Competence code	Code and name of the competence achievement
Competence code	indicator
GC-1 - able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions.	GC-1.1 able to analyze a problem situation as a system, identifying its components and the connections between them GC-1.2 possesses argumentation and develops a meaningful strategy for solving a problem situation based on systemic and interdisciplinary approaches GC -1.3 knows the basics of the strategy and identifies possible risks, suggesting ways to eliminate them
GC-2 - able to manage the project at all stages of its life cycle.	GC -2.1 able to formulate a project task based on the problem posed and the way to solve it GC-2.2 able to develop a project concept, formulates a goal, tasks, justifies the relevance, expected results and scope of their application GC-2.3 knows how to develop a project implementation plan taking into account possible risks, plans the necessary resources
GC-3 - able to organize and manage the work of the team, developing a team strategy to achieve the goal	GC -3.1 knows the techniques and methods of teamwork, organizes the selection of team members to achieve the goal GC -3.2 able to organize and adjust the work of the team, including on the basis of collegial decisions GC-3.3 able to delegate authority to team members and distributes assignments, gives feedback on the results, takes responsibility for the overall result
GC-4. Able to apply modern communication technologies, including in a foreign language(s) for academic and professional interaction	GC-4.1 able to establish contacts and organize communication in accordance with the needs of joint activities, using modern communication technologies GC -4.2 knows the basics of business documentation and uses professional vocabulary in foreign and Russian languages

GC-5 able to analyze and take into account the diversity of cultures in the process of intercultural interaction.	GC -4.3 able to organize discussion of results and present the results of research and project activities at various public events in Russian or a foreign language, choosing the most appropriate format GC-5.1. knows the main categories of philosophy, the laws of historical development, the basics of intercultural communication GC-5.2 able to communicate in the world of cultural diversity and demonstrate mutual understanding between students from different cultures in compliance with ethical and intercultural norms GC-5.3. has practical skills in analyzing philosophical and historical facts, assessing cultural phenomena; ways of analyzing and revising his views in case of disagreements and conflicts in intercultural communication
GC-6 - able to determine and implement the priorities of his own activities and ways to improve it based	GC-6.1 able to assess his resources and their limits (personal, situational, temporary), makes reasonable use of them
on self-assessment.	GC-6.2 able to identify educational needs and ways to improve their own (including professional) activities based on self-assessment GC-6.3 has the skills to build a flexible professional trajectory, taking into account the accumulated experience of professional activity, dynamically changing requirements of the labor market and personal development strategy

Competence code	Code and name of the competence achievement
	indicator
GPC-1. Able to use philosophical	GPC -1.1 Knows the philosophical concepts of
concepts and methodology of scientific	natural science and the methodology of scientific
knowledge in the study of various	knowledge,
levels of organization of matter, space	GPC -1.2 Able to use in-depth knowledge of the
and time.	philosophical concepts of natural science in assessing
	the consequences of their professional activities
	GPC -1.3 Able to apply the acquired knowledge in
	their research activities, to make correct
	generalizations and conclusions
GPC -2. Able to use special and new	GPC -2.1 Knows the basics of ecology, geoecology,
sections of ecology, geoecology and	environmental economics and circular economy, as
nature management in solving research	well as environmental management
and applied problems of professional	GPC -2.2 Able to use environmental, economic and
activity.	other special knowledge and algorithms to solve
	professional problems
	GPC -2.3 Able to find, analyze and competently use
	the latest information and modern techniques in the
	performance of research and applied tasks
GPC -3 . Able to apply environmental	GPC -3.1 Knows the principles and methods of
research methods to solve research and	environmental monitoring of environmental
	components

	,
applied problems of professional activity.	GPC -3.2 Owns analytical methods for monitoring pollutants and physical impacts and processing the information received GPC -3.3 Able to develop systems for environmental
	monitoring and control in production and solve applied problems in professional activities
GPC -4. Able to apply regulatory legal acts and norms of professional ethics in the field of ecology and nature	GPC -4.1 Knows the basics of environmental regulation and the basics of legislation in the field of nature management
management.	GPC -4.2 Knows how to use and apply regulatory legal acts in the field of ecology and nature management
	GPC -4.3 Able to use the norms of professional ethics in their professional activities
GPC -5. Able to solve the problems of professional activity in the field of ecology, nature management and	GPC -5.1 Knows how to choose and apply an algorithm for solving environmental problems and implements algorithms using software
nature protection using information and communication, including	GPC -5.2 Able to use information technology tools to search, store, process, analyze and present information
geoinformation technologies.	GPC -5.3 Knows how to process Earth remote sensing data and use cartographic materials, owns modern GIS technologies
GPC -6 Able to design, represent, protect and disseminate the results of their professional activities, including research.	GPC -6.1 Able to receive, analyze, summarize the necessary scientific information using modern research methods, present their own results in the form of scientific articles and public speeches
	GPC -6.2 Possesses the skills of an oral report and presentation of the results of project and scientific activities, fluency in the material
	GPC -6.3 Knows the methodological foundations of scientific research, the requirements of copyright and scientific ethics

Competence code	Code and name of the competence achievement indicator
SPC-1 The ability to formulate	SPC -1.1 Able to formulate conclusions and practical
problems, tasks and methods of	recommendations based on research results
scientific research, summarize the	SPC -1.2 Is able to develop a research program within
results obtained, formulate conclusions	the framework of a formulated topic
and practical recommendations based	SPC -1.3 He is able to formulate problems, tasks and
on the results of research	methods of scientific research, summarize the results
	obtained, formulate conclusions and practical
	recommendations based on the results of research
SPC -2 The ability to creatively use	SPC -2.1 Has knowledge and skills in the field of
knowledge of fundamental and applied	fundamental and applied sections of special
sections of special disciplines in	disciplines
production and technological activities	SPC -2.2 Has the skills of practical application of
_	research methods based on fundamental and applied
	sections of special disciplines

	SPC -2.3 Is able to creatively use knowledge of fundamental and applied sections of special
	disciplines in production and technological activities
SPC -3 Knowledge of the basics of	SPC -3.1 Has an idea of modern computing
design, expert-analytical activity and	complexes for design and expert-analytical activities
research using modern approaches and	SPC -3.2 Has the skills to perform individual design
methods, equipment and computer	operations, expert-analytical activities and research
systems	using modern approaches and methods, equipment
	and computer systems
	SPC -3.3 Fluent in and applies in practice modern
	approaches and methods, equipment and computing
	systems for design, expert and analytical activities and
	research
SPC -4 Is able to use modern methods	SPC -4.1 Is aware of modern methods of processing
of processing and interpretation of	and interpretation of environmental information and
environmental information when	their effectiveness
conducting industrial research	SPC -4.2 Has separate skills in applying modern
	methods of processing and interpretation of
	environmental information
	SPC -4.3 He is fluent in and can apply in practice
	modern methods of processing and interpreting
	environmental information when conducting
	industrial research
SPC -5 to monitor a compliance with	SPC -5.1 Knows the main methods of monitoring
environmental protection	compliance with environmental requirements and
requirements, conduct environmental	approaches to the organization of environmental
expertise of various types of project	expertise and audit
tasks, carry out environmental audit of	SPC -5.2. Has practical skills in conducting control
any object and develop	activities in the field of environmental protection
recommendations for the preservation	SPC -5.3 It is able to develop and implement programs
of the natural environment; organize	for monitoring compliance with environmental
and work with statistical and reporting	requirements, conduct environmental expertise of
data	various types of project tasks, carry out environmental
	audits of any object and develop recommendations for
	the preservation of the natural environment.
SPC -6 Able to diagnose problems of	SPC -6.1 Is aware of the approaches to organization
nature protection, develop practical	and management in the field of occupational safety,
recommendations for its protection and	industrial and environmental safety
sustainable development	SPC -6.2 Has the skills to put into practice individual
	solutions in the field of occupational safety, industrial
	and environmental safety
	SPC -6.3 Able to develop and put into practice
	solutions in the field of occupational safety, industrial
	and environmental safety

3. PLACE OF PRACTICE IN THE STRUCTURE OF HIGHER EDUCATION PROGRAM $\,$

"Pre-graduate practice of a master's student" refers to the compulsary part.

Within the framework of the educational program, students also master disciplines and/or other practices that contribute to achieving the planned learning outcomes based on the results of the "Pre-graduate practice of a master's student".

Table 3.1. List of components of higher education program contributing to the achievement of the planned learning outcomes based on the results of the internship

Code	Competence	Previous Disciplines	Subsequent Disciplines
GC -1	able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions.	IT in ecology and natural resources management / Компьютерные технологии в управлении природопользованием Management of natural resources / Менеджмент природных ресурсов Environmental norms for sustainability / Экологические нормы для устойчивого развития Environmental statistics / Экологическая статистика Environmental accounting and reporting / Экологический учет и отчетность	
GC -2	able to manage the project at all stages of its life cycle.	Philosophical problems of natural sciences / Философские проблемы естествознания Мападетен of natural resources / Менеджмент природных ресурсов Мападетен of environmental-economic risks / Управление эколого-экономическими рисками Industrial nature management and economics / Промышленное природопользование и экономика Modern remediation technologies / Современные технологии ремедиации Мападетен of energy resources / Менеджмент ресурсов энергетики	
GC -3	able to organize and manage the work of the team, developing a team strategy to achieve the goal		
GC -4	able to apply modern communication technologies, including in a foreign language(s) for academic and professional interaction	Foreign (Russian) language/ Иностранный (русский) язык Modem problems of Ecology / Современные проблемы экологии	
GC -5	able to analyze and take into account the diversity of cultures in the process of intercultural interaction	Foreign (Russian) language/ Иностранный (русский) язык Philosophical problems of natural sciences / Философские проблемы естествознания	

		Modern moblems of Factory	
		Modem problems of Ecology /	
		Современные проблемы экологии	
		Профессиональный иностранный язык	
	able to determine and	Philosophical problems of natural sciences /	
	implement the priorities of	Философские проблемы естествознания	
GC -6	his own activities and ways	Management of energy resources /	
	to improve it based on self-	Менеджмент ресурсов энергетики	
	assessment		
	Capable of using digital	IT in ecology and natural resources	
	technologies and methods	management / Компьютерные технологии	
	of searching, processing,	в управлении природопользованием	
	analyzing, storing and	Environmental standards and nature	
	presenting information (in	management / Экологические стандарты	
GC -7	the field of ecology and	и природопользование	
	nature management) in the	п прпроденения в в при	
	digital economy and		
	modern corporate		
	information culture		
	Able to use philosophical	Methodology of scientific creation /	
	concepts and methodology	Методология научного творчества	
~~~	of scientific knowledge in	The residence rate is a second of the re	
<b>GPC</b> -1	the study of various levels		
	of organization of matter,		
	space and time.		
		Estimations of natural resources / Оценки	
		природных ресурсов	
		Methodology of scientific creation /	
		Методология научного творчества	
		Modern technologies for nature protection /	
		Современные технологии защиты	
		окружающей среды	
		Environmental-economic aspects of	
	Able to use special and new sections of ecology, geoecology and nature	environmental projects / Эколого-	
		экономические аспекты экологических	
		проектов	
		Environmental norms for sustainability /	
GPC -2		Экологические нормы для устойчивого	
GFC -2	management in solving	развития	
	research and applied	Environmental standards and nature	
	problems of professional activity.	management / Экологические стандарты	
		и природопользование	
		Management of water resources /	
		Управление водными ресурсами	
		Engineering ecology / Инженерная	
		экология	
		Monitoring of environmental impacts /	
		Мониторинг экологических воздействий	
		Modern remediation technologies /	
		Современные технологии ремедиации	

		Industrial safety / Промышленная безопасность Simulation and prevention of accidents / Моделирование и предупреждение аварий	
GPC -3	Able to apply environmental research methods to solve research and applied problems of professional activity.	Estimations of natural resources / Оценки природных ресурсов  Modern technologies for nature protection / Современные технологии защиты окружающей среды  Environmental-economic aspects of environmental projects / Эколого- экономические аспекты экологических проектов  Environmental norms for sustainability / Экологические нормы для устойчивого развития  Standards of environmental management and occupational safety / Стандарты экологического менеджмента и охраны труда  Оссораtional safety and HSE-audit / Охрана труда и HSE-ayдит  Management of energy resources / Менеджмент ресурсов энергетики  Мапаgement of water resources / Управление водными ресурсами  Modern remediation technologies / Современные технологии ремедиации  Wastes: Landfills, Processing and Recycling / Отходы: хранение, захоронение, рециклинг  Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент	
GPC -4	Able to apply regulatory legal acts and norms of professional ethics in the field of ecology and nature management.	Моdem problems of Ecology / Современные проблемы экологии Estimations of natural resources / Оценки природных ресурсов Манадеment of natural resources / Менеджмент природных ресурсов Манадеment of environmental-economic risks / Управление эколого- экономическими рисками	
GPC -5	Able to solve the problems of professional activity in the field of ecology, nature management and nature protection using information and	IT in ecology and natural resources management / Компьютерные технологии в управлении природопользованием	

	communication, including		
	geoinformation		
	technologies		
	Able to design, represent,	Foreign (Russian) language/ Иностранный	
	protect and disseminate the	(русский) язык	
<b>GPC</b> -6	results of their professional		
	activities, including		
	research.		
	The ability to formulate		
	problems, tasks and		
	methods of scientific		
CD C 4	research, summarize the		
SPC-1	results obtained, formulate		
	conclusions and practical		
	recommendations based on		
	the results of research		
		Modern technologies for nature protection /	
	knowledge of fundamental	Современные технологии защиты	
	and applied sections of	окружающей среды	
	special disciplines in	History and methology of ecology and	
	production and	natural resources management / История и	
	technological activities	методология экологии и	
SPC -2	leemological activities	природопользования	
51 C 2		Iternational collaboration /	
		Международное сотрудничество	
		Engineering ecology / Инженерная	
		экология	
		Monitoring of environmental impacts /	
		Мониторинг экологических воздействий	
	Knowledge of the basics of	Estimations of natural resources / Оценки	
	design, expert-analytical	природных ресурсов	
	activity and research using	Modern technologies for nature protection /	
	modern approaches and	Современные технологии защиты	
	methods, equipment and	окружающей среды	
	computer systems	Environmental norms for sustainability /	
	Systems	Экологические нормы для устойчивого	
		развития	
SPC -3		Engineering ecology / Инженерная	
		экология	
		Monitoring of environmental impacts /	
		Мониторинг экологических воздействий	
		летитории окологи неских возденствии	
		Management of energy resources /	
		Менеджмент ресурсов энергетики	
		Modern remediation technologies /	
		Современные технологии ремедиации	
	Is able to use modern	Standards of environmental management	
	methods of processing and	and occupational safety / Стандарты	
SPC -4	interpretation of	экологического менеджмента и охраны	
	environmental information	труда	
		-r/~"	

when conducting industrial research  When conducting industrial research  Ocopational safety and HSE-audit / Охрана труда и HSE-ayaur Environmental statistics / Экологическая статистика  Environmental accounting and reporting / Экологический учет и отчетность Industrial nature management and economics / Промышленное природопользование и экономика Environmental standards and nature management / Экологические стандарты и природопользование Wastes: Landfills, Processing and Recycling / Отходы: хранение, захоронение, решиклин Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент  То monitor a compliance with environmental protection requirements, conduct environmental protection requirements, conduct environmental expertise of various types of project tasks, carry out environmental audit of any object and develop recommendations for the preservation of the natural environmental reported and work with statistical and reporting data  SPC -5  SPC -5  Able to diagnose problems of nature protection, develop praetical recommendations for its protection and sustainable development  Able to diagnose problems of nature protection / Cospewenthise rexuonorius and management / Качество поверхностных вод: моделирование и менеджмент и природопызование манаgement of water resources / Управление эколого-экономическими рисками Епvironmental standards and nature management / Экологические стандарты и природопызование манаgement of environmental-economic risks / Управление эколого-экономическими рисками Бигитинена закоромение, решиклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент манаgement / Качество поверхностных вод: моделирование и менеджмент природиных ресурсов Менеджмент природиных ресурсов Менеджмент природиных ресурсов имене приводиных ресурсов имене при в при рестем при решение и менеджмент при при решение и менеджмент при при решение и менеджмент при при решение и менеджмент решение и менеджмент решение и менеджмен		when conducting in dust in 1	Occapational sofatry and HCE and 1/	
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Wastes: Landfills, Processing and Recycling / Отходы: хранение, захоронение, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент  Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development  Wastes: Landfills, Processing and Recycling / Отходы: хранение, захоронение, рециклинг  Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент Манаgement of natural resources / Менеджмент природных ресурсов Modern technologies for nature protection / Современные технологии защиты окружающей среды Епуironmental norms for sustainability / Экологические нормы для устойчивого			Management of water resources /	
Recycling / Отходы: хранение, захоронение, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент  Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development  SPC -6  Recycling / Отходы: хранение, захоронение, рециклинг  Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент  Манаgement of natural resources /  Менеджмент природных ресурсов Моdern technologies for nature protection / Современные технологии защиты окружающей среды Епvironmental norms for sustainability / Экологические нормы для устойчивого			Управление водными ресурсами	
захоронение, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент  Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development  SPC -6  SPC -6  захоронение, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент Манаgement of natural resources / Meнеджмент природных ресурсов Modern technologies for nature protection / Современные технологии защиты окружающей среды Environmental norms for sustainability / Экологические нормы для устойчивого			Wastes: Landfills, Processing and	
Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент  Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development  SPC -6  Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент  Манаgement of natural resources / Менеджмент природных ресурсов Modern technologies for nature protection / Современные технологии защиты окружающей среды Environmental norms for sustainability / Экологические нормы для устойчивого			Recycling / Отходы: хранение,	
management / Качество поверхностных вод: моделирование и менеджмент  Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development  SPC -6  management / Качество поверхностных вод: моделирование и менеджмент  Management of natural resources /  Meнеджмент природных ресурсов  Modern technologies for nature protection /  Современные технологии защиты окружающей среды  Environmental norms for sustainability /  Экологические нормы для устойчивого			захоронение, рециклинг	
Вод: моделирование и менеджмент  Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development  BOД: моделирование и менеджмент  Management of natural resources /  Mенеджмент природных ресурсов  Modern technologies for nature protection /  Современные технологии защиты окружающей среды  Environmental norms for sustainability /  Экологические нормы для устойчивого			Surface water quality: modeling and	
Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development  Able to diagnose problems of natural resources / Mенеджмент природных ресурсов Modern technologies for nature protection / Современные технологии защиты окружающей среды Environmental norms for sustainability / Экологические нормы для устойчивого			management / Качество поверхностных	
of nature protection, develop practical recommendations for its protection and sustainable development			вод: моделирование и менеджмент	
develop practical recommendations for its protection and sustainable development		Able to diagnose problems	Management of natural resources /	
recommendations for its protection and sustainable development		of nature protection,	Менеджмент природных ресурсов	
protection and sustainable development окружающей среды Environmental norms for sustainability / Экологические нормы для устойчивого		develop practical	Modern technologies for nature protection /	
development	SDC 4			
development Environmental norms for sustainability / Экологические нормы для устойчивого	21 C -0	protection and sustainable		
Экологические нормы для устойчивого		I=		
развития			развития	

Standards of environmental management	
and occupational safety / Стандарты	
экологического менеджмента и охраны	
труда	
Occopational safety and HSE-audit /	
Охрана труда и НЅЕ-аудит	
Environmental statistics / Экологическая	
статистика	
Environmental accounting and reporting /	
Экологический учет и отчетность	
Management of energy resources /	
Менеджмент ресурсов энергетики	
Modern remediation technologies /	
Современные технологии ремедиации	
Industrial nature management and	
economics / Промышленное	
природопользование и экономика	
Environmental standards and nature	
management / Экологические стандарты	
и природопользование	
Wastes: Landfills, Processing and	
Recycling / Отходы: хранение,	
захоронение, рециклинг	
Surface water quality: modeling and	
management / Качество поверхностных	
вод: моделирование и менеджмент	
Industrial safety / Промышленная	
безопасность	
Simulation and prevention of accidents /	
Моделирование и предупреждение	
аварий	

# **4. PRACTICE VOLUME**

The total workload of the  $\underline{\ll}$ Educational practice of a master's student $\underline{\gg}$  is 12 ECTS points (432 ac.h.).

# **5. PRACTICE CONTENT**

Table 5.1. Practice content *

Name of practice section	Contents of the section (topics, types of practical activities)	Workload, ac.h.
Section 1.	Receiving an assignment for an internship from a manager, receiving advice on internships	2
Organizational and	Instruction on labor protection and fire safety	2
preparatory	Choice of research methodology	20
	Drawing up a schedule of work on the study	20
Section 2. Main	Preparation of a literature review on the topic of research using domestic and foreign literature	

Name of practice section	Contents of the section (topics, types of practical activities)	Workload, ac.h.
	Activities for the collection, processing and systematization of factual material according to the subject of the final qualifying work	160
	Preparation of the final qualifying work	106
	Current control of the internship by the supervisor	20
Preparation of a practice report		20
Preparation for defense and defense of the practice report		2
	Total:	432

#### 6. LOGISTICS AND TECHNICAL SUPPORT FOR PRACTICE

Classroom for Academic Activity Type	Classroom equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture	A classroom for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	Classroom, equipped with a set of specialized furniture; whiteboard; a set of devices includes portable
Seminar	A classroom for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations.	multimedia projector, laptop, projection screen, Stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype
For independent work of students	A classroom 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 electronic information and educational environment.	

#### 7. PRACTICE METHODS

Pre- graduate practice can be carried out both in the structural divisions of the RUDN or in organizations in Moscow (stationary), and at bases located outside Moscow (field).

The practice on the basis of an external organization (outside of the RUDN) is carried out on the basis of a corresponding contract, which specifies the terms, place and conditions of the practice in the base organization.

The terms of the internship correspond to the period specified in the calendar training schedule of the OP HE. The terms of the internship can be adjusted in coordination with the Department of Educational Policy and the Department of Organization of Practices and Employment of Students at the RUDN.

#### 8. RECOMMENDED SOURCES FOR COURSE STUDIES

#### *MAIN READING(SOURCES):*

- 1. Novikov, Yu.N. Preparation and defense of master's theses and bachelor's theses: textbook / Yu. N. Novikov. St. Petersburg.; M.; Krasnodar: Lan, 2019. 29 p.
- 2. Polat E.S. Modern pedagogical and information technologies in the education system: a textbook / E.S. Polat, M.Yu. Bukharkina. 3rd ed., ster. M.. Publishing Center "Academy", 2014.-368 p.

## ADDITIONAL (OPTIONAL) READING (SOURCES):

1. Panina T.S., Vavilova L.N. Modern ways to activate learning. – M.: Academy, 2020. - 176 p.

### INTERNET-(BASED) SOURCES:

- 1. Learning toolkits for self- studies in the RUDN LMS TUIS:
- Электронно-библиотечная система РУДН ЭБС РУДН <a href="http://lib.rudn.ru/MegaPro/Web">http://lib.rudn.ru/MegaPro/Web</a>
  - ЭБС «Университетская библиотека онлайн» http://www.biblioclub.ru
  - ЭБС Юрайт <a href="http://www.biblio-online.ru">http://www.biblio-online.ru</a>
  - ЭБС «Консультант студента» www.studentlibrary.ru
  - ЭБС «Лань» <a href="http://e.lanbook.com/">http://e.lanbook.com/</a>
  - ЭБС «Троицкий мост»
  - 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.elsevierscience.ru/products/scopus/

#### Scientific full-text databases.

- ➤ The list of databases is in alphabetical order with a description of each resource and a link. The collection of electronic resources UNIBTS (NB) contains:
- ➤ universal databases of world-famous publishers and electronic information providers for all scientific fields: Cambridge Journals, Oxford Journals, JSTOR, ScienceDirect "Freedom Collection, PROQUEST DISSERTATIONS AND THESES GLOBAL, Springer Journals, Taylor & Francis Online, Wiley Online Library, etc.
- ➤ □ specialized databases for specific fields of knowledge: CASC, IEL IEEE, INSPEC, Reaxys/RMC, IOPSCIENCE, MathSciNET, Pathway Studio, Royal Society of Chemistry, Nature, Science online, zbMATH journals, scientific protocols and scientific materials in the field of physical sciences and engineering by Springer Protocols and Springer Materials, Questel Orbit patents, etc.
- ➤ □ Open access full-text databases rigorously rated by professional experts: ScienceDirect Open, Oxford Open, Palgrave Open, De Gruyter Online Open, Sage Open, Springer Open, Taylor & Francis Online
- ➤ archives of scientific articles from Western publishers: AGU (Wiley), Annual Reviews, Cambridge University Press, IOP Publishing, Oxford University Press,

Nature Publishing Group, Royal Society of Chemistry, SAGE Publications, Taylor and Francis, The American Association for the Advancement of Science

➤ ☐ Mendeley is an international scientific social network that allows you to find likeminded scientists, create scientific associations and study trends in modern research, combine information on the user's personal computer, forming your own collection of full-text scientific papers for distribution and citation, provides an opportunity for communication, facilitates establishing contacts with colleagues who deal with similar topics. Mendeley users are university scientists from all over the world: Stanford, Harvard, Oxford, Michigan, Cambridge, etc.

It is recommended to use *scientometric databases* when choosing a topic for scientific research and for the initial selection of information. Bibliographic and abstract scientometric databases contain tools for tracking the citation of articles published in scientific journals. The citation level of a scientific article is an indicator of relevance, significance and interest in this topic. The journals presented in the database serve as a guide when choosing publications for their own scientific publications.

The website of epy RUDN Library here are presented presents the following scientometric databases:

☐ Web of Science and SCOPUS - universal international scientometric databases
☐ InCites, SciVal - tools for analyzing world science and developing a development
strategy
☐ Google Academy - a search engine for scientific publications with the ability to navigate
to full texts and article citation indicators
☐ RSCI on the eLibrary.ru platform is a national information and analytical system that
accumulates more than 12 million publications by Russian scientists.

You can work with databases from any computer of the University. Remote access is organized to some electronic platforms. Detailed information about each resource can be obtained from the consultants of the RUDN Library reading rooms. Electronic databases (DB) will help to significantly reduce the time spent on searching for relevant information, and full-text databases will allow you to immediately get acquainted with the selected materials.

Educational and methodological materials for internship, filling out a diary and preparing an internship report *:

- 1. Safety rules for the passage of the "Pre- graduate practice of a master's student " (initial briefing).
- 2. The general arrangement and principle of operation of technological production equipment used by students during their internship; flow charts and regulations, etc. (if necessary).
  - 3. Guidelines for filling in a diary by students and preparing a practice report.

# 8. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES ON THE RESULTS OF PRACTICE

Evaluation materials and a point-rating system* for evaluating the level of competencies (part of competencies) based on the results of the "Pre-graduate practice of a master's student" are presented in the Appendix to this Internship Program.

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