Federal State Autonomous Educational Institution for Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
(RUDN University)

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)

2022 г.

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. Pre-graduate 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 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 -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 able to analyze and take into account the diversity of cultures in the process of intercultural interaction.	**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 on self-assessment.	**GC-6.1** able to assess his resources and their limits (personal, situational, temporary), makes reasonable use of them
	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 concepts and methodology of scientific knowledge in the study of various levels of organization of matter, space and time.	**GPC -1.1** Knows the philosophical concepts of natural science and the methodology of scientific knowledge,
	GPC -1.2 Able to use in-depth knowledge of the 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 sections of ecology, geoecology and nature management in solving research and applied problems of professional activity.	**GPC -2.1** Knows the basics of ecology, geoecology, environmental economics and circular economy, as well as environmental management
	GPC -2.2 Able to use environmental, economic and 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 research methods to solve research and	**GPC -3.1** Knows the principles and methods of 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 management.	**GPC -4.1** Knows the basics of environmental regulation and the basics of legislation in the field of nature 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 nature protection using information and communication, including geoinformation technologies.	**GPC -5.1** Knows how to choose and apply an algorithm for solving environmental problems and implements algorithms using software
	GPC -5.2 Able to use information technology tools to search, store, process, analyze and present information
	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 problems, tasks and methods of scientific research, summarize the results obtained, formulate conclusions and practical recommendations based on the results of research	**SPC -1.1** Able to formulate conclusions and practical recommendations based on research results
	SPC -1.2 Is able to develop a research program within the framework of a formulated topic
	SPC -1.3 He is able to formulate problems, tasks and 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 knowledge of fundamental and applied sections of special disciplines in production and technological activities	**SPC -2.1** Has knowledge and skills in the field of fundamental and applied sections of special disciplines
	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 design, expert-analytical activity and research using modern approaches and methods, equipment and computer systems	**SPC -3.1** Has an idea of modern computing complexes for design and expert-analytical activities
	SPC -3.2 Has the skills to perform individual design operations, expert-analytical activities and research 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 of processing and interpretation of environmental information when conducting industrial research	**SPC -4.1** Is aware of modern methods of processing and interpretation of environmental information and their effectiveness
	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 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 environment; organize and work with statistical and reporting data	**SPC -5.1** Knows the main methods of monitoring compliance with environmental requirements and approaches to the organization of environmental expertise and audit
	SPC -5.2. Has practical skills in conducting control activities in the field of environmental protection
	SPC -5.3 It is able to develop and implement programs for monitoring compliance with environmental requirements, conduct environmental expertise of 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 nature protection, develop practical recommendations for its protection and sustainable development	**SPC -6.1** Is aware of the approaches to organization and management in the field of occupational safety, industrial and environmental safety
	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 Management of natural resources / Менеджмент природных ресурсов Management of environmental-economic risks / Управление эколого-экономическими рисками Industrial nature management and economics / Промышленное природопользование и экономика Modern remediation technologies / Современные технологии ремедиации Management 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	

		Modem problems of Ecology / Современные проблемы экологии Профессиональный иностранный язык	
GC -6	able to determine and implement the priorities of his own activities and ways to improve it based on self-assessment..	Philosophical problems of natural sciences / Философские проблемы естествознания Management of energy resources / Менеджмент ресурсов энергетики	
GC -7	Capable of using digital technologies and methods of searching, processing, analyzing, storing and presenting information (in the field of ecology and nature management) in the digital economy and modern corporate information culture	IT in ecology and natural resources management / Компьютерные технологии в управлении природопользованием Environmental standards and nature management / Экологические стандарты и природопользование	
GPC -1	Able to use philosophical concepts and methodology of scientific knowledge in the study of various levels of organization of matter, space and time.	Methodology of scientific creation / Методология научного творчества	
GPC -2	Able to use special and new sections of ecology, geoecology and nature management in solving research and applied problems of professional activity.	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 environmental projects / Эколого-экономические аспекты экологических проектов Environmental norms for sustainability / Экологические нормы для устойчивого развития Environmental standards and nature 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 Occopational safety and HSE-audit / Охрана труда и HSE-аудит Management of energy resources / Менеджмент ресурсов энергетики Management 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.	Modem problems of Ecology / Современные проблемы экологии Estimations of natural resources / Оценки природных ресурсов Management of natural resources / Менеджмент природных ресурсов Management 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		
GPC -6	Able to design, represent, protect and disseminate the results of their professional activities, including research.	Foreign (Russian) language/ Иностранный (русский) язык	
SPC-1	The ability to formulate problems, tasks and 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 knowledge of fundamental and applied sections of special disciplines in production and technological activities	Modern technologies for nature protection / Современные технологии защиты окружающей среды History and methology of ecology and natural resources management / История и методология экологии и природопользования Iternational collaboration / Международное сотрудничество Engineering ecology / Инженерная экология Monitoring of environmental impacts / Мониторинг экологических воздействий	
SPC -3	Knowledge of the basics of design, expert-analytical activity and research using modern approaches and methods, equipment and computer systems	Estimations of natural resources / Оценки природных ресурсов Modern technologies for nature protection / Современные технологии защиты окружающей среды Environmental norms for sustainability / Экологические нормы для устойчивого развития Engineering ecology / Инженерная экология Monitoring of environmental impacts / Мониторинг экологических воздействий Management of energy resources / Менеджмент ресурсов энергетики Modern remediation technologies / Современные технологии ремедиации	
SPC -4	Is able to use modern methods of processing and interpretation of environmental information	Standards of environmental management and occupational safety / Стандарты экологического менеджмента и охраны труда	

	when conducting industrial research	Occopational safety and HSE-audit / Охрана труда и HSE-аудит 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, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент	
SPC -5	To monitor a compliance with 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 environment; organize and work with statistical and reporting data	Estimations of natural resources / Оценки природных ресурсов Environmental-economic aspects of environmental projects / Эколого-экономические аспекты экологических проектов Environmental statistics / Экологическая статистика Environmental accounting and reporting / Экологический учет и отчетность Modern remediation technologies / Современные технологии ремедиации Management of environmental-economic risks / Управление эколого-экономическими рисками Environmental standards and nature management / Экологические стандарты и природопользование Management of water resources / Управление водными ресурсами Wastes: Landfills, Processing and Recycling / Отходы: хранение, захоронение, рециклинг Surface water quality: modeling and management / Качество поверхностных вод: моделирование и менеджмент	
SPC -6	Able to diagnose problems of nature protection, develop practical recommendations for its protection and sustainable development	Management of natural resources / Менеджмент природных ресурсов Modern technologies for nature protection / Современные технологии защиты окружающей среды Environmental norms for sustainability / Экологические нормы для устойчивого развития	

		Standards of environmental management and occupational safety / Стандарты экологического менеджмента и охраны труда Occopational safety and HSE-audit / Охрана труда и HSE-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 «Educational practice of a master's student» 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. Organizational and preparatory	Receiving an assignment for an internship from a manager, receiving advice on internships	2
	Instruction on labor protection and fire safety	2
	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	80

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 multimedia projector, laptop, projection screen, Stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype
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.	
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 http://lib.rudn.ru/MegaPro/Web
- ЭБС «Университетская библиотека онлайн» http://www.biblioclub.ru
- ЭБС Юрайт http://www.biblio-online.ru
- ЭБС «Консультант студента» www.studentlibrary.ru
- ЭБС «Лань» http://e.lanbook.com/
- 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 like-minded 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.

DEVELOPER:

Professor of the Department of ESandPQM		**Margarita Redina**
Должность, БУП	Подпись	Фамилия И.О.

Head of the Department:

Director of the Department of ESandPQM		**Elena Savenkova**
Наименование БУП	Подпись	Фамилия И.О.

Head of the higher education program:

Professor of the Department of ESandPQM		**Margarita Redina**
Должность, БУП	Подпись	Фамилия И.О.