Federal State Autonomous Educational Institution of Higher Education "Peoples' Friendship University of Russia"

Faculty of Ecology

Recommended by the Methodological council on specialties and study directions

WORKING PROGRAM OF THE DISCIPLINE

Name of the discipline

MANAGEMENT OF NATURAL RESOURCES

Recommended for the specialty/ direction

05.04.06 Ecology and nature management

Masters' program:

Economics of natural resources management

1. Goals and objectives of the discipline:

The main goal of the course is to acquire theoretical knowledge and practical skills of assessment and planning in the field of environmental management.

The main sections of the course:

- -Introduction to environmental management;
- Assessment of the resource base of nature management;
- State management of natural resources;
- "Green economy" and tools for its regulation;
- Environmental management at enterprises;
- Integrated management systems at enterprises.

2. Place of discipline in the structure of the educational program:

The discipline **Management of natural resources** refers to an optional part of block 1 of the curriculum.

Table 1 shows the previous and subsequent disciplines aimed at the formation of the discipline's competencies in accordance with the competence matrix of EP HE.

Table 1

Previous and subsequent disciplines aimed at building competencies

Nr.	Code and name of	Preceding	Subsequent disciplines (groups of
	competence	disciplines	disciplines)
Univers	al competencies		-
1	UC-1 Willingness to act in non-standard situations, to bear social and ethical responsibility for the decisions made	-	Management of environmental-economic risks Ecologic-economical aspects of environmental projects
	1 (71 1	sional activity - research	ch, control and expert, organizational and
managem 3	PC-8 the ability to organize and manage research and development and expert and analytical work using advanced knowledge in the field of environmental management	-	Research work Management of environmental-economic risks Ecologic-economical aspects of environmental projects

3. Requirements for the results of mastering the discipline:

The process of studying the discipline is aimed at the formation of the following competencies according to the educational standard:

UC-1 Willingness to act in non-standard situations, to bear social and ethical responsibility for the decisions made

PC-8 the ability to organize and manage research and development and expert and analytical work using advanced knowledge in the field of environmental management

As a result of studying the discipline, the student must:

Know: theoretical basics of natural resources evaluation and management.

Be able to: to give qualitative and quantitative characteristics of nature management systems.

Possess: modern methods of evaluation, planning and forecasting in the sphere of natural resources evaluation and management.

4. The scope of the discipline and types of educational work

The total labor intensity of the discipline	5 credits
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Type of educational work	Total hours	Semesters							
		1	2	3	4	5	6	7	8
Classroom Lessons (total)									
Including:									
Lectures	17	9	8						
Practical lessons	34	18	16						
Seminars	-								
Laboratory work	-								
Independent work	125								
Control	4								
The total labor intensity, hours.	180								
The total labor intensity, credits	5								

5. Discipline content5.1 Contents of discipline sections

Discipline section name	Section content (topics)
Introduction to natural resources management	Theoretical basics of natural resources management.
Assessment of the resource base of nature management	Systems of nature use and management: structure, descriptions. management
State management of natural resources	State regulation of natural resources management. International practice. Efficiency and problems of the state regulation
Methods of natural resources management	Administrative, economic and informational approaches and their combination. International practice.
"Green economy" and tools for its regulation	Concept of "green economy". Modern problems of the waste in industry and household and their regulation in the "Green economy" strategy

5.2* Sections of disciplines and types of classes

No	Discipline section name	Lectures	Practical	Indonand	Total
	Discipline section hame	Lectures	Practical	Independ	
Π/Π			lessons	ent work	hours
1.	Introduction to natural resources management	3	6	25	34
2.	Assessment of the resource base of nature management	3	6	25	34
3.	State management of natural resources	3	6	25	34
4.	Methods of natural resources management	4	8	25	37
5.	"Green economy" and tools for its regulation	4	8	25	37

6. Laboratory workshop (if available) - NO

7. Practical lessons; seminars

Nr	Discipline section	Subjects of practical classes (seminars)	Total hours
1.	Introduction to natural resources management	Theoretical basics of administrative, economical and informational regulation instruments. Their efficiency	1
2.	Assessment of the resource base of nature management	Natural resources potential of the territories: components, features, evaluation approaches	
3	State management of natural resources	State system of environmental resources regulation	2
4	Methods of natural resources management	Administrative, economical and informational regulation instruments. Taxes in the sphere of nature management: examples, calculations, problems	2
5	"Green economy" and tools for its regulation	Calculation of the life cycle impacts	1

8. Material and technical base of the discipline:

An auditorium equipped with multimedia equipment and a personal computer with a standard package of office programs.

9. Information support of the discipline

When studying the discipline, traditional information technologies are used to present the theoretical part of the material by the teacher (PowerPoint presentation).

a) Software

MSWindows; MSOffice

b) databases, reference and search systems

www.mnr.gov.ru - site of the Ministry of Natural Resources of the Russian Federation;

http://rpn.gov.ru/ - Federal Service for Supervision in the Sphere of Natural Resources (Rosprirodnadzor);

www.ecoindustry.ru - site of the journal "Production Ecology";

www.unep.org - site of the United Nations Environment Program;

www.wwf.ru - site of the World Wildlife Fund.

http://burondt.ru/ - website of the BAT Bureau - information on the introduction of standardization based on the best available technologies

http://www.mnr.gov.ru/activity/directions/zelenye_standarty/zelenye_standarty/?sphrase_id=1 24597 - information on the development, application and implementation of "green standards"

http://www.mnr.gov.ru/activity/directions/natsionalnyy_proekt_ekologiya/ - information on the progress of the National Project "Ecology"

10. Literaure

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11. Methodical instructions for students on mastering the discipline (module)

Independent work of students includes:

- individual study of theoretical material on the subject of the course (links to information sources are presented in the previous sections);
- study of additional material;
- preparation of abstracts on the topics specified in the program.
- 11.1. Independent study of additional theoretical material is carried out by students on an individual basis; the list of recommended information sources is given above.
- 11.2. Requirements for writing abstracts

Academic ethics, respect for copyright. In the first lesson, students are informed about the need to comply with the norms of academic ethics and copyright during their studies. In particular, information is provided:

- general information about copyright;
- citation rules;
- link formatting rules

All footnotes in the text are carefully checked and provided with "addresses". It is not permissible to include in your work excerpts from the works of other authors without indicating this, to retell someone else's work close to the text without referring to it, to use other people's ideas without indicating the primary sources. This also applies to sources found on the Internet. You must specify the full site address. All cases of plagiarism must be excluded. If unjustified and incorrect borrowings are identified, the abstract is not accepted.

When preparing written works, the following must be submitted without fail: work plan; a list of used literature, drawn up in accordance with the current rules for the bibliographic description of used sources.

For the preparation of the abstract, only special relevant sources should be used. In addition to abstracts, the subject of which is related to the dynamics of any phenomena over many years, or the historical development of scientific views on any problem, sources should be used for a period of no more than 10 years.

The prepared essay should be presented at one of the classes in agreement with the teacher. Use of PowerPoint presentations (or those prepared using similar licensed or free software) is encouraged, but not required. The approximate time of the presentation is up to 15 minutes. The structure of the report and additional requirements for the quality of materials are determined by the chosen topic and are additionally discussed with the teacher.

12. Fund of appraisal funds for intermediate certification of students in the discipline (module) (developed in accordance with the requirements of the "Regulations for the formation of funds of appraisal funds", approved by order of the rector dated 05.05.2016 No. 420).

Department of Applied Ecology

APPROVED at the meeting of the department August 28, 2019, minutes No. 1 Head of the Department

Head of the Department
_____ M.M. Redina

VALUATION FUND

ON THE EDUCATIONAL DISCIPLINE

MANAGEMENT OF NATURAL RESOURCES

direction 05.04.05 "Ecology and nature management"

Program:

Economics of natural resources management

Qualification (degree) of the graduate –

Master of Ecology and Nature Management

Passport of the fund of assessment tools by discipline

Direction 05.04.6 «Экология и природопользование»:

Discipline: MANAGEMENT OF NATURAL RESOURCES

Code **51.B.05**

12.1. Балльно-рейтинговая система оценки и характеристика шкалы оценивания Rating assessment system and characteristics of the assessment scale

Балльно-рейтинговая система оценки и характеристика шкалы оценивания

Controlle d	Controlled discipline topic Контролируемая тема дисциплины	Ф(Forms of control ФОСы (формы контроля уровня освоения ООП)				Topic point
competen ce code or part thereof Код			Classroom work Camoct		Экза мен	- s Балл ы темы	
код контрол ируемой компете нции или ее части		Test / Tecr	Test work Контрольная работа	Class work Работа на занятии	Доклад seminar report		
UC-1 PC-8	Introduction to natural resources management	X		10			4
UC-1 PC-8	Assessment of the resource base of nature management	X		12			4
UC-1 PC-8	State management of natural resources	X		12			6
UC-1 PC-8	Methods of natural resources management	X		10			8
UC-1 PC-8	"Green economy" and tools for its regulation	X		12			10
	Ехат Экзамен		15	56	15	14	

12.2 The maximum number of credits in the course is 3. At the same time, the following ratio is established between the number of points and the number of credits:

Points to credits ratio

	1 onits to cicuits ratio							
	Total points	Final assessment	Amount of credits					
ŀ	91	5	3					
Ī	91-100	5	3					

86 - 91	5 (B)	3
71-85	4 (C)	2
61-70	3+ (D)	1
51 - 60	3 (E)	1
21 - 51	2 (FX)	0
<21	2 (F)	0

- 6. Deciphering of grades is also accepted according to the specified document:
- 7. A: "Excellent" the theoretical content of the course has been fully mastered, without gaps, the necessary practical skills for working with the material learned have been formed, all the educational tasks provided for by the training program have been completed, the quality of their implementation was assessed by the number of points close to the maximum.
- 8. B: "Very good" the theoretical content of the course is mastered completely, without gaps, the necessary practical skills of working with the acquired material are basically formed, all the educational tasks provided for by the training program are completed, the quality of most of them is assessed by the number of points close to the maximum ...
- 9. C: "Good" the theoretical content of the course has been mastered completely, without gaps, some practical skills of working with the mastered material are not sufficiently formed, all the educational tasks provided for by the training program have been completed, the quality of performance of none of them has not been assessed with a minimum number of points, some types of tasks have been completed with mistakes.
- 10. D: "Satisfactory" the theoretical content of the course is partially mastered. but the gaps are not significant, the necessary practical skills to work with the acquired material are basically formed, most of the educational tasks provided for in the training program have been completed, some of the completed tasks may contain errors.
- 11. E: "Mediocre" the theoretical content of the course is partially mastered, some practical skills have not been formed, many of the educational tasks provided for by the training program have not been completed, or the quality of some of them is assessed by the number of points close to the minimum.
- FX: "Conditionally unsatisfactory" the theoretical content of the course has been partially mastered, the necessary practical skills have not been formed, most of the educational tasks provided for by the training program have not been completed, or the quality of their implementation was assessed by the number of points close to the minimum; with additional independent work on the course material, it is possible to improve the quality of completing educational tasks.
- F: "Certainly unsatisfactory" the theoretical content of the course has not been mastered, the necessary practical skills are not formed, all the completed study tasks contain gross errors, additional independent work on the course material will not lead to any significant improvement in the quality of the study tasks.

12.3 List of competencies and stages of their formation

Nr.	Code and name of competence
3	UC-1 Ability to use special and new sections of ecology, geoecology and nature management in solving scientific research and applied problems of professional activity
	PC-8 the ability to organize and manage research and development and expert

and analytical work using advanced knowledge in the field of environmental management

12.4. Typical control tasks or other materials necessary to assess knowledge, skills, skills and (or) experience of activities, characterizing the stages of the formation of competencies in the process of mastering the educational program

Questions to prepare for certification

- 1. Tasks of nature management as a science. Modern nature management as a scientific direction
- 2. Reproductiveness of the territory and its assessment
- 3. Modern nature management as a process of meeting personal and social needs for natural resources. Types, types, forms of resource use
- 4. Anthropogenic pressures and changes in the natural distribution of territories: approaches to assessment. Assessment of the stability of natural-territorial systems (NTS)
- 5. The modern structure of nature management: the main blocks of the use of natural resource potential
- 6. Assessment-based management of natural resource potential
- 7. Theoretical foundations of economic regulation of resource use
- 8. Modern information methods of natural resources management
- 9. State regulation in the field of natural resources management
- 10. "Green economy" and tools for its regulation

12.4. Methodological materials defining the procedures for assessing knowledge, skills, and activity skills, characterizing the stages of the formation of competencies).

The assessment of knowledge, skills and abilities is carried out using the components of the WCF presented in paragraphs. 12.1-12.34, in accordance with the sequence of acquisition of competencies indicated in table. p. 12.2.

The program is compiled in accordance with the requirements of the ES HE RUDN / FGOS HE.

Deve	lop	er	s:
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Professor of the Department of Applied Ecology

Khaustov A.P.

подпись

Head of the Department

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название кафедры подпись инициалы> фамилия