

Syllabus educational component

Protected areas

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| Title: | Protected areas |
| Level of higher education: | first (educational and professional) |
| Course webpage in Moodle: | https://dl2022.khadi-kh.com/course/view.php?id=790 |
| The scope of the educational component | 4 credits (120 hours) |
| Final control form | Test |
| Consultations: | on schedule |
| Name of the Department: | Department of Ecology |
| Teaching language: | English |
| Course leader: | Ganna Zhelnovach, PhD., Assoc. Prof. |
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Brief content of the educational component:

The goal is for future ecologists to acquire the necessary minimum knowledge about ecopolitical, theoretical and practical foundations, regulatory, legal, scientific and institutional support of the protected business and to form their skills in the protection and management of objects and territories of the nature reserve fund and eco-network, their creation and expansion.

Subject: theoretical foundations and methodical provisions regarding the development and implementation of international and domestic legislation regarding the management of state nature reserves.

The main tasks of studying an academic discipline are:

- study of international and domestic legislative frameworks regarding the implementation of nature conservation activities;
- study of provisions and regulations regarding the scientific accounting of the preservation of the state's natural reserve fund, including through the creation and development of an eco-network;
- acquisition of practical skills in assessing the level and minimizing the consequences of harmful effects on the natural reserve fund;
- formation of skills regarding the development of the ecological network system of the region.

Competencies acquired by the acquirer:

General competences:

The ability to solve complex specialized tasks and solve practical problems in the field of ecology, environmental protection and balanced nature use, or in the learning process, which involves the application of basic theories and methods of environmental sciences, and are characterized by the complexity and uncertainty of conditions.

Special (professional) competences:

The ability to justify the need and develop measures aimed at preserving landscape and biological diversity and forming an ecological network.

Learning outcomes:

Identify the factors that determine the formation of landscape biological diversity.

Choose the optimal strategy for conducting public hearings on problems and formation of the territories of the nature reserve fund and ecological network

Тематичний план

| № of theme | Name of topics (LK, PR, SR) | Quantity of hours | |
|------------|--|-------------------|----------------|
| | | full-time | correspondence |
| | LK General principles of the development and functioning of the protected business. Basics of the implementation of the protected case in Ukraine | 2 | 0,5 |
| | PR Assessment of direct damage caused to the fishery. | 4 | 0,5 |
| | SR Development of measures to renew the ecosystem of a natural reservoir | 9 | 14 |
| | LK International regulations for the management of protected affairs | 4 | - |
| | PR | - | - |
| | SR Development of measures to renew the ecosystem of a natural reservoir | 9 | 14 |
| | LK Scientific principles of accounting for rare species of flora and fauna of Ukraine | 4 | 1 |
| | PR Assessment of indirect damages caused to the fishery. | 4 | 0,5 |
| | SR Development of measures to prevent indirect damage to the aquatic ecosystem | 9 | 14 |
| | LK Classification, status and tasks of territories and objects of PZF | 4 | 1 |
| | PR | - | - |
| | SR Development of measures to prevent indirect damage to the aquatic ecosystem | 9 | 14 |
| | LK Legislative and legal regulations for the implementation of a protected matter in Ukraine | 4 | 0,5 |
| | PR Determination of the amount of damage caused by the violation of the legislation on the nature reserve fund as a result of illegal extraction or destruction of objects of the animal world, damage or destruction of their dwellings and structures, places of residence and reproduction. | 4 | 0,5 |
| | SR Development of measures to minimize damage to the animal world of terrestrial ecosystems | 9 | 14 |
| | LK Characteristics of lands of the PZF of Ukraine | 4 | 1 |
| | PR | - | - |
| | SR Development of measures to minimize damage to the animal world of terrestrial ecosystems | 9 | 14 |
| | LK The current state of the PZF of Ukraine and the Kharkiv region | 4 | 1 |
| | PR Determination of the amount of damage caused by the violation of the legislation on the nature reserve fund as a result of illegal felling or damage to trees and plants with a lignified stem to the extent of growth cessation | 4 | 0,5 |

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|-------|---|----|-----|
| | SR Development of measures to minimize damage to the vegetation of terrestrial ecosystems | 9 | 8 |
| | LK Ecological network | 4 | 1 |
| | PR | - | - |
| | SR Determining the amount of damage caused by the violation of the legislation on the nature reserve fund as a result of illegal felling or damage to trees and plants that | 9 | 14 |
| Total | LK | 16 | 6 |
| | PR | 16 | 2 |
| | SR | 88 | 112 |

Individual educational and research task (if available): none

Teaching methods:

- 1) verbal: 1.1 traditional: lectures, explanations, stories, etc.;
- 1.2 interactive (non-traditional): problem lectures, discussions, etc.;
- 2) visual: method of illustrations, method of demonstrations
- 3) practical: 3.1 traditional: practical classes, seminars;
- 3.2 interactive (non-traditional): business and role-playing games, trainings, seminars-discussions, "round table", brainstorming method.

Evaluation system and requirements:

Current performance

1 The current success of applicants for the performance of educational types of work in training sessions and for the performance of independent work tasks is evaluated using a four-point rating scale with subsequent transfer to a 100-point scale. During the evaluation of the current academic performance, all types of work provided by the educational program are taken into account.

1.1 Lecture classes are evaluated by determining the quality of performance of specified tasks.

2 Evaluation of the current academic performance of students of higher education is carried out after each lecture on a four-point scale ("5", "4", "3", "2") and is entered in the journal of academic performance.

– "excellent": the winner mastered the theoretical material flawlessly, demonstrates deep knowledge of the relevant topic or academic discipline, the main provisions;

- "good": the applicant has mastered the theoretical material well, has the main aspects from primary sources and recommended literature, presents it in a reasoned manner; has practical skills, expresses his thoughts on certain problems, but certain inaccuracies and errors are assumed in the logic of the presentation of theoretical content or in the analysis of practical ones;

- "satisfactory": the applicant has basically mastered the theoretical knowledge of the educational topic or discipline, orients himself in primary sources and recommended literature, but answers unconvincingly, confuses concepts, answers additional questions uncertainly, does not have stable knowledge; when answering questions of a practical nature, reveals inaccuracy in knowledge, does not know how to evaluate facts and phenomena, connect them with the future profession;

- "unsatisfactory": the applicant has not mastered the educational material of the topic (discipline), does not know scientific facts, definitions, hardly orients himself in primary sources and recommended literature, lacks scientific thinking, practical skills are not formed.

3 The final score for the current activity is recognized as the arithmetic mean sum of points for each lesson, for individual work, current control works according to the formula:

$$K^{current} = \frac{K1+K2+...+Kn}{n},$$

де $K^{current}$ – final assessment of success based on the results of current control;

$K1, K2, ..., Kn$ – assessment of the success of the current control measure;

n – number of ongoing control measures.

Estimates are converted into points according to the calculation scale (table 1).

Table 1 – Recalculation of the average grade for the current activity into a multi-point scale

| 4- score scale | 100- score scale | 4- score scale | 100- score scale | 4- score scale | 100- score scale | 4- score scale | 100- score scale |
|----------------|------------------|----------------|------------------|----------------|------------------|-------------------|------------------|
| 5 | 100 | 4,45 | 89 | 3,90 | 78 | 3,35 | 67 |
| 4,95 | 99 | 4,4 | 88 | 3,85 | 77 | 3,3 | 66 |
| 4,9 | 98 | 4,35 | 87 | 3,80 | 76 | 3,25 | 65 |
| 4,85 | 97 | 4,3 | 86 | 3,75 | 75 | 3,2 | 64 |
| 4,8 | 96 | 4,25 | 85 | 3,7 | 74 | 3,15 | 63 |
| 4,75 | 95 | 4,20 | 84 | 3,65 | 73 | 3,1 | 62 |
| 4,7 | 94 | 4,15 | 83 | 3,60 | 72 | 3,05 | 61 |
| 4,65 | 93 | 4,10 | 82 | 3,55 | 71 | 3 | 60 |
| 4,6 | 92 | 4,05 | 81 | 3,5 | 70 | from 1,78 to 2,99 | from 35 to 59 |
| | | | | | | reassembly | |
| 4,55 | 91 | 4,00 | 80 | 3,45 | 69 | from 0 to 1,77 | from 0 to 34 |
| 4,5 | 90 | 3,95 | 79 | 3,4 | 68 | reassembly | |

Final assessment

1 A student of higher education receives a credit in the last lesson in the discipline based on the results of the current assessment. The average score for the current activity is converted into points on a 100-point scale, according to the conversion table (table 1). Applicants for higher education who have a current grade point average in the discipline lower than "3" (60 points) can increase their current grade by taking tests in the discipline in the last session.

Assessment of the knowledge of applicants through testing is carried out according to the following scale:

- "Excellent": at least 90% of correct answers;
- "Very good": from 82% to 89% of correct answers;
- "Good": from 74% to 81% of correct answers;
- "Satisfactory": from 67% to 73% of correct answers;
- "Satisfactory enough": from 60% to 66% of correct answers;
- "Unsatisfactory": less than 60% of correct answers.

2 The condition for obtaining credit is:

- making up for all missed classes;
- the average current grade in the discipline is not lower than "3" (60 points).

4 The learning result is evaluated (select is required):

- on a two-point scale (passed/failed) according to table 2;

Table 2 – Scale for transferring points to the national evaluation system

| On a 100-point scale | On a national scale |
|------------------------------|---------------------|
| from 60 points to 100 points | counted |
| less than 60 points | not counted |

Course policy:

- the course involves working in a team, the environment in the classroom is friendly, creative, open to constructive criticism;
- mastering the discipline involves mandatory attendance of lectures, as well as independent work;
- independent work involves the study of individual topics of the academic discipline, which are presented in accordance with the program for independent study, or were considered briefly;
- all tasks provided by the program must be completed within the set time;
- if the student of higher education is absent from classes for a good reason, he presents the completed tasks during independent preparation and consultation of the teacher;
- while studying the course, students of higher education must adhere to the rules of academic integrity set forth in the following documents: "Rules of academic integrity of participants in the educational process of the Khnadu" (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_dobroch_1.pdf), "Academic integrity. Checking the text of academic, scientific and qualification papers for plagiarism" (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_85_1_01.pdf), "Moral and ethical code of participants in the educational process of the Khnadu" (https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_MEK_1.pdf).
- in case of detection of plagiarism, the applicant receives 0 points for the task and must repeat the tasks provided for in the syllabus;
- writing off during tests and exams is prohibited (including using mobile devices). Mobile devices are allowed to be used only during online testing.

Recommended Books:

1. Заповідна справа: підручник / Мудрак О.В., Мудрак Г.В. – Херсон: Олді Плюс, 2020. – 640 с.
2. Основи екології : підручник для студ. вищих навч. закладів / [В. Г. Бардов, В. І. Федоренко, Е. М. Білецька та ін.]; за ред. В. Г. Бардова, В. І. Федоренко. — Вінниця : Нова Книга, 2013. — 424 с.
3. Заповідна справа: навч. посіб. / В.А. Андронов, Є.О. Варивода, Г.В. Тітенко. – Х.: НУЦЗУ, 2013. – 204 с.
4. Заповідна справа. Практикум. Навчально-методичний посібник / Укладачі: Мудрак О.В., Кравчук Г.І., Єлісавенко Ю.А., Дзюмак М.А. Вінниця: ВНАУ, 2011. 104 с.

Additional sources:

1. distance course: <https://dl2022.khadi-kh.com/course/view.php?id=790>
2. <http://www.menr.gov.ua/>
3. <http://pzf.menr.gov.ua/>.
4. <http://books.menr.gov.ua/Default.aspx?tabid=Main>.

5. <https://uncg.org.ua/pzf/>

Developer(s)

the syllabus of the academic discipline _____

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