

Syllabus
educational component

Eco-networks of Ukraine

Title:	Eco-networks of Ukraine
Level of higher education:	initial (short cycle)
Course webpage in Moodle:	https://dl2022.khadi-kh.com/course/view.php?id=790
The scope of the educational component	3 credits (90 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:

- Knowledge and understanding of the subject area and professional activity
- The ability to preserve and multiply moral, cultural, scientific values and achievements of society on the basis of understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, use different types and forms of motor activities for active recreation and leading a healthy lifestyle.

Special (professional) competences:

- Ability to use basic knowledge from professional discipline in professional activity.
- Ability to professionally operate information about natural and recreational resources

Learning outcomes:

- Understand and explain basic environmental laws, rules and principles of environmental protection, recreation and nature management
- Identify the factors that determine the formation landscape and biological diversity

Тематичний план

№ of theme	Name of topics (LK, PR, SR)	Quantity of hours	
		full-time	correspondence
1	LK Sustainable development as the basis of balanced development of society	4	0,5
	PR Determination of the characteristics of forest plantations on the territory of the projected PZF object.	2	0,5
	SR Development of measures to renew the forest ecosystem	6	11
2	LK The importance of biodiversity. The problem of preserving biotic and landscape diversity	4	-
	PR Determination of the characteristics of forest plantations on the territory of the projected PZF object.	2	-
	SR Development of measures to renew the forest ecosystem	6	11
3	LC Ekomerezha: properties, principles of formation, structure, functions.	4	1
	PR Phenological observations on the territory of the planned PZF facility.	2	0,5
	SR Development of measures to prevent damage to the aquatic ecosystem of the projected PZF facility.	6	11
4	LC The structure of the national ecological network of Ukraine	4	1
	PR Phenological observations on the territory of the planned PZF facility.	2	-
	SR Development of measures to prevent damage to the aquatic ecosystem of the projected PZF facility.	6	11
5	LK Methodological bases of formation and design of schemes of regional and local ecological networks.	4	0,5
	PR Accounting of the vertebrate fauna (traces of activity) on the territory of the projected object of the PZF.	2	0,5
	SR Development of measures to minimize damage to the animal world of terrestrial ecosystems	8	11
6	LK Criteria and principles of selection of territories for inclusion in the structural elements of the eco-network: methodical recommendations.	4	1
	PR Accounting of the vertebrate fauna (traces of activity) on the territory of the projected object of the PZF.	2	-
	SR Development of measures to minimize damage to the animal world of terrestrial ecosystems	6	11
7	LC Ecological networks as a tool of eco-oriented territory management	4	1
	PR Preparation of proposals for the protection obligation of the territory proposed for granting the object the status of bequest	2	0,5

	SR Development of measures regarding the risks of violation of the protection obligation of the territory proposed for granting the object the status of bequest	3	8
8	LK Socio-ecological integration as a tool for the development of an ecological network	4	1
	PR Preparation of proposals for the protection obligation of the territory proposed for granting the object the status of bequest	2	-
	SR Development of measures regarding the risks of violation of the protection obligation of the territory proposed for granting the object the status of bequest	3	8
Total	LK	32	6
	PR	16	2
	SR	42	82

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;

$K1, K2, \dots, Kn$ – 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 _____ Assoc. Prof. Ganna Zhelnovach

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