


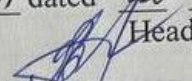
**NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF
UKRAINE**

Department of General Ecology, Radiobiology and Safety of Life Activity

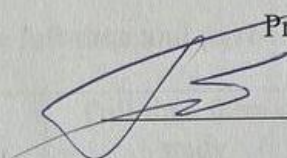
"CONFIRMED"
Dean of the Faculty of Plant Protection,
Biotechnologies and Ecology
Yulia KOLOMIETS
Protocol № 9 dated "23" 05 2024 p.



"APPROVED"
at the meeting of the department of General Ecology
radiobiology and Safety of Life Activity
Protocol № 11 dated "22" 05 2024 p.
Head of Department
Alla KLEPKO



"REVIEWED"
Program Coordinator "Ecology"
Program Coordinator
Volodymyr BOGOLYUBOV



PROGRAM OF THE COURSE

Social ecology

Field of study 10 Natural sciences
Specialization 101 Ecology
Educational program "Ecology"
Faculty (Institute) Faculty of Plant Protection, Biotechnologies and Ecology
Developers: docent Rakoid O.O., PhD on agrarian sciences
(position, academic degree, academic title)

Kyiv – 2024 p.

Description of the course **Social ecology**
(name)

Academic degree, specialty, academic programme		
Academic degree	<i>Bachelor's</i>	
Specialty	<i>101 Ecology</i>	
Academic programme	<i>"Ecology"</i>	
Characteristics of the discipline		
Type	Compulsory	
Total number of hours	120	
Number of ECTS credits	4	
Number of modules	2	
Course project (work) (if any)		
Form of assessment	<i>Exam</i>	
Indicators of the discipline for full-time and part-time forms of university study		
	Full-time	Part-time
Year of study	3	
Semester	6	
Lectures	<i>30 hours</i>	<i>hours</i>
Practical classes and seminars	<i>30 hours</i>	<i>hours</i>
Laboratory classes	<i>hours</i>	<i>hours</i>
Self-study	<i>60 hours</i>	<i>hours</i>
Number of hours per week for full-time students	<i>4 hours</i>	

1. Aim, objectives, competences and expected learning outcomes of the discipline

Aim of mastering the discipline "Social Ecology" is the study of the leading theories and concepts of sustainable development of modern society, formulated in the works of national and foreign authors; acquire a deep knowledge and true competence in the problems of socio-natural character, the formation on this basis: an ecological worldview; responsible attitude to the environment; the desire for active action to protect the natural environment.

Objectives of social ecology are the laws of interaction between society and nature, mechanisms to reduce environmental pollution, maintaining ecological balance, as well as legal and socio-cultural conditions for sustainable development.

Acquisition of competences:

Integral competence (IC): Ability to solve complex specialized problems and solve practical problems in the field of ecology, environmental protection environment and

balanced environmental management, which involves the application of basic theories and methods of environmental sciences, characterized by complexity and uncertainty of conditions.

General competencies (GC):

GC7. Ability to act in a socially responsible and conscientious manner.

GC12. Ability to realize their rights and duties as a member of society, to understand the values of civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of man and citizen of Ukraine.

Special (professional) competences (SC):

SC5. Ability to assess the impact of technogenesis processes on the environment and identify environmental risks associated with production activities.

SC6. Ability to utilize the basic principles and components of environmental management.

Expected Learning Outcomes (ELO):

ELO14. Be able to communicate the results of activities to professional audiences and the general public, make presentations and reports.

ELO15. Be able to explain the social, economic and political implications of implementing environmental projects.

ELO17. Recognize responsibility for the effectiveness and consequences of implementing integrated environmental measures.

2. Programme and structure of the discipline for:

– full-time (part-time) form of study;

Modules and topics	Number of hours													
	Full-time							Part-time						
	weeks	total	including					total	including					
			l	p	lab	ind	s.st		l	p	lab	ind	s.st	
2	3	4	5	6	7	8	9	10	11	12	13	14		
Module 1. Theoretical and methodological aspects of social ecology														
Topic 1. Social ecology: subject, methods, principles and laws	1-2	11	4	4			5							
Topic 2. Socio-ecological interaction and its subjects	3-4	14	2	2			10							
Topic 3. The history of the relationship between human and nature	5-6	11	4	4			5							
Topic 4. Causes and signs of the modern crisis of	7-8	18	4	4			10							

the Nature-Society system													
Total for module 1	58		14	14			30						
Module 2. Socio-natural progress and the eco-society													
Topic 1. Human behaviour in the natural and social environment	9	18	4	4			10						
Topic 2. Human health as a comprehensive indicator of the state of human society	10-11	13	4	4			5						
Topic 3. Socio-demographic aspects of social ecology	12-13	13	4	4			5						
Topic 4. Ways to harmonize the relationship between human and nature	14-15	18	4	4			10						
Total for module 2	62		16	16			30						
Total hours	120		30	30			60						
Course project (work)													
(if included in the curriculum)			-	-	-		-	-	-				-
Total hours	120		30	30			60						

3. Topics of laboratory (practical, seminar) classes

No	Topic title	Hours
1	Sociological approach in the study of ecology. Social ecology laws	4
2	The concept of the human environment and its main elements. Ecology of the living environment	2
3	The relationship between society and nature in the history of civilization	4
4	Environmental crisis: its meaning, development phases and signs. Socio-ecological problem and its contradictions.	4

	Development models and possible scenarios for overcoming the global environmental crisis	
5	The concept of behaviour. Biochemical, biophysical and informational levels of behaviour regulation. Characterization of environmental needs	4
6	The impact of socio-environmental factors on human health. The concept of "healthy lifestyle"	4
7	Ecology and demography. Socio-demographic problems of Ukraine	4
8	Ecological society as a type of social structure. The concept of sustainable development of nature and society	4

4. Topics for self-study

№	Topic title	Hours
1	The modern concept of social ecology, the structure of social ecology.	5
2	Principles of interaction between society and the natural environment.	10
3	Theory of basic human values	5
4	Relationships between human activity and the environment	10
5	The ways in which humans use natural resources and examples of problems caused by over-exploitation	10
6	Public health: historical context and current agenda	5
7	Ecological and economic problems of urban areas	5
8	Global Sustainable Development Goals: problems of implementation in war situations in Ukraine	10

5. Tools for assessing expected learning outcomes:

- credit;
- module tests;
- calculations and graphical calculations;
- defence of practical works;
- esse writing.

6. Teaching methods:

- verbal method (lecture);
- practical method (practical training, task solution);
- visual method (method of illustrations, method of demonstrations);
- video method (remote, multimedia, web-based);
- independent work (completion of tasks).

7. Assessment methods:

- credit;
- oral or written questionnaire;
- modular testing;

- ese;
- defence of practical works;
- presentations and performances at scientific events.

8. Distribution of points received by students

The assessment of students' knowledge and skills is conducted by means of a 100-point scale and is converted into national grades according to Table 1 of the current *Exam and Credit Regulations at NULES of Ukraine*.

Student's rating, points	National grading of exams and credits	
	exams	credits
90-100	excellent	pass
74-89	good	
60-73	satisfactorily	
0-59	unsatisfactorily	fail

To determine a student's rating in the discipline R_{DIS} (up to 100 points), the received assessment rating R_A (up to 30 points) is added to the academic performance rating R_{AP} (up to 70 points): $R_{DIS} = R_{AP} + R_A$.

9. Teaching and learning aids

1. Електронний курс дисципліни "Social ecology": <https://elearn.nubip.edu.ua/course/view.php?id=4922>
2. Rakoid O.O., Klepko A.V., Bondar V.I. Social Ecology. Textbook for students of Bachelor's Degree in the specialty 101 Ecology. Kyiv: NUBIP, 2023. 209 p.
3. Rakoid O.O., Klepko A.V. Social Ecology. Educational and methodological manual for students of Bachelor's Degree in the specialty 101 Ecology. Kyiv: NUBIP, 2023. 89 p.
4. Rakoid O.O., Solomenko L.I. Human Ecology. Study guide. Kyiv: NUBIP, 2020. 191 p.
5. Understanding Human Ecology. Knowledge, Ethics and Politics by Geetha Devi T. V., 2019. 240 pp.
6. Кунах О.М., Жуков О.В. Соціальна екологія: Навчально-методичний посібник. Дніпро: типографія «АРБУЗ», 2021. 61 с.
7. Ракоїд О.О., Клепко А.В., Бондарь В.І. Соціальна екологія. Навчальний посібник для студентів ОС Бакалавр за спеціальністю 101 Екологія. К.: НУБіП, 2024. 185 с.
8. Ракоїд О.О., Клепко А.В., Бондарь В.І. Соціальна екологія. Навчально-методичний посібник для студентів ОС Бакалавр за спеціальністю 101 Екологія. К.: НУБіП, 2024. 123 с.

10. Recommended sources of information

1. ЕкоСистема, національна онлайн-платформа, яка містить актуальну інформацію про стан довкілля: <https://eco.gov.ua/>
2. Information and analytical data base “Environmental passport of the regions of Ukraine”: <http://ukrecopass.org.ua/>
3. Державна служба з питань безпечності харчових продуктів та захисту споживачів: <https://dpss.gov.ua/bezpechnist-harchovih-produktiv-ta-veterinarna-medicina>
4. Sustainable Development knowledge platform: <http://sustainabledevelopment.un.org/>
5. Self-Nutrition Data. <https://nutritiondata.self.com/>
6. Biorhythm Calculator. <https://keisan.casio.com/exec/system/1340246447>
7. World data center for Geoinformatics and Sustainable Development: <http://wdc.org.ua/en/services/ukraine-sd>
8. ЕкоЗагроза (офіційний вебресурс і мобільний додаток Міндовкілля): <https://ecozagroza.gov.ua/>
9. Національна платформа звітування за ЦСР (відкрита платформа ЦСР). URL: https://ukrstat.gov.ua/csr_prezent/2020/ukr/st_rozv/menu.htm