

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL AVIATION UNIVERSITY
Faculty of Environmental Safety, Engineering and Technologies
DEPARTMENT OF ENVIRONMENTAL SCIENCE

_____ **APPROVED**

Head of the Department of
Environmental Science

Tamara DUDAR

« » 2023

**LIST OF TOPICS FOR HOMEWORK/
CONTROL WORKS (Part-time)**

on the subject «Introduction into Major»

Educational Professional Program: Ecology and Environmental Protection

Field of study: 10 Natural Sciences

Specialty: 101 Environmental Science

Compiler: Saienko T.V. Doctor in Pedag. Sciences.
Professor, Prof. of the Department of Environmental
Science.

(Name, Scientific Degree, Academic Title, Position)

1. Methodological recommendations for completing homework for full-time students are described in detail in the manual "Ecology and environmental protection. Introduction to the subject: Methodological recommendations in self-study work for students of higher education ED "Bachelor" specialty 101 "Ecology", compiled by I.V. Matveyeva, A. Ye Gai. - Kyiv: NAU, 2023. - 32 p. (electronic file Introduction to the profession_ 101_ Method.recommendation, (p. 20)).

2. List of topics for homework on the discipline «Introduction into Major»

- 1 The history of the development of ecology as a science
- 2 Development and formation of ecology as a science in Ukraine
- 3 Causes of environmental crises in the world
- 4 Causes of environmental crises in Ukraine
- 5 V.I. Vernadskyi and his teachings about the biosphere and noosphere
- 6 Assessment of the natural resource potential of Ukraine
- 7 Environmental problems of the industrial complex
- 8 Environmental problems of transport
- 9 Sources and environmental consequences of air pollution
- 10 Sources and environmental consequences of pollution of water bodies
- 11 Global environmental problems
- 12 Ecological state of water bodies of Ukraine
- 13 Ecological problems of small rivers
- 14 Ecological problems of the use of land resources
- 15 Environmental problems of large cities
- 16 The influence of the state of the environment on human health
- 17 Assessment of World Ocean Resources
- 18 Environmental problems of using water resources
- 19 The influence of human activity on the ecological state of water bodies
- 20 Climate change: causes and consequences
- 21 Environmental consequences of the use of various types of weapons
- 22 Prospects for the use of renewable energy sources in Ukraine
- 23 Ecological aspects of the use of forest resources
- 24 The problem of preserving biodiversity
- 25 The influence of motor transport emissions on air quality

- 26 Causes and consequences of soil degradation
- 27 The ecological role of the forest
- 28 The importance of nature reserves for the preservation of natural diversity
- 29 Evaluation of the mineral and raw material base of Ukraine
- 30 Protection and rational use of soils
- 31 The impact of air transport on the ecological state of the environment
- 32 Pesticides and their impact on the environment
- 33 Food safety
- 34 Electromagnetic pollution of the urban environment
- 35 The evolution of the relationship between man and the natural environment
- 36 Contribution of Ukrainian scientists to the development of ecology
- 37 The problem of waste generation and handling
- 38 The problem of solid household waste generation and its management in Ukraine
- 39 Assessment of the ecological state of different regions of Ukraine (region of choice)
- 40 Use of genetically modified organisms and products
- 41 Development of ecological tourism in Ukraine and the world
- 42 The influence of thermal power plants on atmospheric air quality
- 43 Environmental problems of the Dnipro River
- 44 Environmental problems of Ukraine
- 45 International cooperation in the field of environmental protection

3. Instructions for the execution of Control Works (Part-time)

The performance of the control work consists in writing the answers to the set questions question. You should start working after completing your studies literature Answers should be meaningful, complete and clearly intended for the given question, not to have reasoning and evasions from the essence of the question.

The control work must be written correctly, with consistency presentation of the material and correct editing of the text, legible handwriting and qualitatively designed. You must write before each section of the test title.

The question number for the work is assigned by the teacher individually.

4. List of questions for the control work on the discipline «Introduction into Major»

1. Formation of ecology as a science in the world and in Ukraine.
2. Causes of the environmental crisis in the world and in Ukraine.

3. Stages of development of ecology as a science. The current state of ecology and its connection with other sciences.
4. Natural resource potential of Ukraine.
5. Environmental problems of the domestic industrial complex.
6. Global environmental problems.
7. Sources and consequences of atmospheric air pollution.
8. Sources and consequences of pollution of water bodies.
9. Environmental problems of the use of land resources.
10. The influence of the state of the environment on human health.
11. Ecological assessment of the state of the World Ocean.
12. Climate change: causes and consequences.
13. Environmental problems of large cities.
14. Environmental consequences of the use of various types of weapons.
15. Ecological condition of the territories where military actions took place.
16. Prospects for the use of renewable energy sources in Ukraine.
17. Impact of road transport emissions on air quality.
18. The problem of preserving biodiversity.
19. Causes and consequences of soil degradation.
20. Impact of air transport on the ecological state of the environment.
21. Environmental safety of food products.
22. Environmental problems of waste generation and accumulation and their management.
23. Electromagnetic pollution of the urban environment.
24. Assessment of the ecological state of the region of Ukraine (by choice).
25. International cooperation in the field of environmental protection.

Methodological recommendations for the performance of control work for part-time applicants are described in detail in «Ecology and environmental protection. Introduction into Major: Methodological recommendations for self-study work for students of higher education ED «Bachelor» specialty 101 "Ecology", compiled by I.V. Matveeva, A. Ye. Gai. - Kyiv: NAU, 2023. - 32 p. (electronic file - Introduction into Major_ 101_ Method. Recommendation).