

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL AVIATION UNIVERSITY
Linguistics and Social Communications Faculty
 Foreign Languages and Applied Linguistics Department

AGREED

Dean of FESET

V.Chumak

“ ___ ” _____ 2021

APPROVED

Vice-Rector for Academics

A. Polukhin

“ ___ ” _____ 2021



Quality Management System

COURSE TRAINING PROGRAM

on

“Foreign Language for Specific Purpose”

Educational Professional Program:

“Ecology and Environment Protection”

Field of Study:

10 “Natural Sciences”

Speciality:

101 “Ecology”

Training form	Semester	Total (hours/ECTS credits)	Practicals (seminars)	Self-study	Semester Grade
Full-time	1, 2	135/4.5	66	69	Graded Test – 1 s. Examination – 2 s.

Index: CB-3-101/21-1.3

QMSNAUCTP12.01.04–01-2021



The Course Training Program on “Foreign Language for Specific Purpose” is developed on the basis of the Educational Professional Program “Ecology and Environment Protection”, Curriculum and Extended Curriculum of Higher Education Seekers Training for “Bachelor” № CB-3-101/21, № ECB-3-101/21 for Speciality for Speciality 101 “Ecology” and corresponding normative documents.

Developed by
Senior lecturer
of the Department of Foreign Languages
and Applied Linguistics _____ N. Bereznikova

Discussed and approved by the Foreign Languages and Applied Linguistics Department, Minutes № ____ of “ ____ ” _____ 2021.

Head of the Department _____ O. Shostak

Discussed and approved by the Graduate Department for Educational Professional Program “Ecology and Environment Protection”, the Speciality 101 “Ecology” – Department of Ecology, Minutes Minutes № ____ of “ ____ ” _____ 2021.

Guarantor of the Educational Professional Program _____ M. Radomska

Head of the Department _____ V. Frolov

Vice Rector on International
Collaboration and Education

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« ____ » _____ 2021

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Master copy



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INTRODUCTION

The Course Training Program on “Foreign Language for Specific Purpose” is developed on the basis of “Methodical Instructions for the Development and Preparation of a Course Training Program of a Subject” approved by № № 071/order dated 10.07.2019, № 088/order dated 16.10.2019 and corresponding normative documents.

1. EXPLANATORY NOTES

1.1. Planned Results

Subject status in the system of professional training of an expert.

Teaching English is of great importance in the higher educational system of Ukraine. Being directed on communication and linked with social and special subjects the subject “Professional Foreign Language” makes significant contribution into the education of young people.

Learning a professional foreign language is an integral part of students’ preparing for the transition from learning a foreign language as a subject to its practical use for the professional purpose. Practical knowledge of a foreign language makes it possible to study world standards, informative literature in order to make the independent professional decision. Learning a foreign language extends students’ horizons and erudition, develops their interest in the future profession and increases their cultural level.


The **objective** of teaching “Foreign Language for Specific Purpose” for students majoring in speciality 101 “Ecology” and educational professional program “Ecology and Environment Protection” is the formation of students’ foreign language professional competence, adequate both to the general purpose of foreign language studying as a means of intercultural communication, personal development and self-realization, and to the needs of the labour market in experts ready to continue their education and professional activities in the foreign language environment.

The tasks of mastering the subject are as follows:

- to extend general English vocabulary and professional vocabulary;
- to develop the ability to comprehend the content of the original scientific texts and profession-oriented technical texts to obtain the required information from them, interpret and translate them while learning;
- to activate oral skills during the discussion of topics;
- to develop the ability to understand the recorded and live foreign speech;
- to develop students’ ability to communicate within the learnt topic in the form of monologue, dialogue and polylogue speech;
- to develop creative thinking skills of students.

1.2. Learning outcomes the subject makes it possible to achieve.

- appropriate communication skills;
- knowledge of grammatical, lexical and stylistic features of business, scientific and professional style;
- ability to learn and master professional knowledge and the knowledge of a foreign language and the ability to apply the acquired knowledge in practice;

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- understanding of basic grammatical phenomena and the ability to use them in oral and written speech;
- ability to search, process and analyze the acquired information in English from various sources;
- ability to comprehend the content of the original oral texts (listening skills);
- ability to communicate within business and professional topics;
- ability to present material in English, participate in discussions on professional issues and clearly and reasonably express the opinion in English;
- skills of interpersonal interaction and communication in English.

1.3. Competences the subject makes it possible to acquire.

Learning “Foreign Language for Specific Purposes” results in step-by-step development of the following competences, namely:

- *linguistic competence*: development and improvement of basic knowledge of the phonetic, lexical, grammatical and spelling system of a foreign language and the ability to apply them skillfully in the production of their own utterances;
- *communicative competence*: improvement of speaking skills (monologue and dialogue speech), listening, reading and writing skills (writing different types of written assignments to the topics of modules, such as CVs, cover letters); the ability to use the linguistic material to achieve communicative, informative, cognitive and other goals;
- *professional competence*: the ability to set and solve applied professional tasks by means of a foreign language according to up-to-date professional requirements; the ability to continuous self-education and self-development.
- *sociolinguistic competence*: the ability to understand, choose and use language forms that are in line with the context of foreign communication, and transform them according to the needs;
- *social and cultural competence*: knowledge of the peculiarities of foreign-language professional communication in the scientific field, development of the ability to build the speech behaviour in accordance with the social and cultural specific character of the country the language of which students study;
- *strategic competence*: the ability to participate in foreign language communication by choosing the proper strategy of discourse, as well as an adequate strategy for improving the effectiveness of this communication.

1.4. Interdisciplinary links.

The subject “Foreign Language for Specific Purpose” is based on the knowledge of the following subjects: “Business Ukrainian Language”, “Introduction to Profession”, “Chemistry”, “Biology”, “Biogeochemistry”, “Physics”, “Higher Mathematics”, “Information Technologies in Environmental Science and , “Geology with Fundamentals of Mineralogy”, “Meteorology and Climatology” and is the basis for studying “General Ecology and Neoecology”, “Landscape ecology” and others.



2. COURSE TRAINING PROGRAM ON THE SUBJECT

2.1. The subject content

The training material of the subject is structured according to a module principle and consists of two modules:

- **module №1 “Higher Education in the World. Ecology and Ecosystem. Biosphere. Ecological Education”,**
 - **module №2 “Geocology. Ecological Issues in Ukraine. Types of pollution”,**
- that are logically complete, relatively independent, integral parts of the subject, learning of which provides for the module test and the analysis of its implementation.

2.2. Modular structuring and integrated requirements for each module.

Module №1 “Higher Education in the World. Ecology and Ecosystem. Biosphere. Ecological Education”.

Integrated requirements to module №1:

After completing module №1 a student must know:

- lexical material on the topic “Higher Education in the World. Ecology and Ecosystem. Biosphere. Ecological Education”, required for effective communication and discussion;
- grammar aspects “Simple Sentences”, “Types of Questions”, “Tenses in Active Voice”;
- main grammatical and lexical features of translation of literature on the topic “Higher Education in the World. Ecology and Ecosystem. Biosphere. Ecological Education”,
- basic rules of work with scientific and technical literature;
- morphemes and word-formation models used for creating terminology of civil engineering;
- clichés typical for scientific and professional literature.

Learning outcomes:

- to read and understand the original literature on the specialty in order to obtain the necessary information;
- to take part in conversations, discussions and dialogues on the topics of the module;
- understand a foreign language while listening (listening to audio, watching video on the topics of the module);
- make a presentation in English on one of the topics of Module№1;
- recognize grammatical phenomena and correlate their form with meaning when working with texts.

Topic 1. The system of Higher education in the world. Higher education in Britain and the USA.

The system of general and Higher education in Britain and the USA. Types of Higher educational establishments of the both countries. Role of Higher education in industrial countries of West. Increasing of economic development on basis of increasing of education level in country.



Topic 2. National Aviation University. History of the university.

The National aviation university as a leading higher educational establishment of Ukraine. Areas of professional education. University structure. History of University.

Topic 3. Ecology and ecological systems.

Definition of ecology. The meaning of term “ecology”. Scientific contribution of German biologist Ernst Haeckel. Scientists studies of interrelations living organisms and nonliving components of ecosystems. Ecosphere. Goal of ecology.

Topic 4. Classification of ecosystems components.

Role of biosphere for living organisms’ existence. Biosphere extending in hydrosphere, lithosphere and ecosphere. Living and nonliving components of ecosystems. Characteristics of physical and chemical factors, their affection on living organisms.

Topic 5. Living organisms.

Classification of living organisms in any ecosystem. Producers. Consumers. Decomposers. Their functions and interdependence. Interrelation of living and nonliving components in nature. Food chains.

Topic 6. Global ecosystem.

Geosphere. Geosphere components. Lithosphere. Hydrosphere. Atmosphere. Energy significance of the sun, wind and water. Origin of life on the Earth. Types of matter. Single-celled plants – the first samples of life on the planet.

Topic 7. Green plants. Photosynthesis.

Soil formation process. Water as a breaking down factor of solid rock. Role of porous lava. Accumulation of nutrients for living organisms. Evolution of complex vegetable life. Photosynthesis significance for animal life.

Topic 8. Characteristics of ecosystems types.

Ecosystems and ecotones. Interrelations of plants and animals communities in terrestrial ecosystems. Functions of producers, consumers and decomposers. Ecosystems of forests, meadows, deserts. Aquatic ecosystems: salty and fresh.

Topic 9. Theory of biosphere.

Academician V.I. Vernadsky study of biosphere. Modern researches of biosphere. Biosphere as a complex of physical, chemical and biotic factors. Migration of chemical elements. Contribution of living matter into geological process.

Topic 10. Theory of noosphere.

Academician V.I. Vernadsky – a founder of the theory about noosphere. Definition of noosphere. Modern scientists about noosphere. Noosphere as a geological phenomenon. Significance of noosphere for a future generation and environment.

Topic 11. Ecological education.

Development of ecological education in Ukraine. Ecological education in Higher educational establishments in Ukraine. Significance of rare animal and vegetative endemics of the Carpathian region in Ukraine. Infrastructure of green tourism. Ecological projects for the students’ youth. Ecological educational trails and routes.

Topic 12. Recreational land of protected natural reserves.

Geographical location of recreational land in Ukraine. Significance of protected natural reserves. Conservation of vegetation unique species. Care and preservation of animal populations in protected natural reserves.



Topic13. The Carpathian nature reserve.

Ecological projects for students. Importance of rare endemic animals and plants of the Carpathian region. Infrastructure of green tourism. Ecological educational routes.

Topic14. Nature reserve Elanetsky steppe.

Geographic location. Climate conditions of the steppe on the Right-bank of Ukraine. Content of soil deposits. Measures on conservation and renewing of the feather grass steppe of the southern Ukraine. Uniqueness of the plants and animals of Elanetsky steppe.

Topic15. Nature reserve Sviaty Hory.

Geographic location of the nature reserve. Importance of lower reaches soils of the Siversky Donets. Climate conditions of the northern steppe of Ukraine. Valleys, meadows, slopes. Varieties of the plants and animals species.

Module 2 “Geoecology. Ecological problems. Types of Pollution”

Integrated requirements to module №2:

After completing module №2 a student must **know**:

- lexical material on the topic “Geoecology. Ecological problems. Types of Pollution”, required for effective communication and discussion;
- grammar aspects “Noun”, “Article”, “Tenses in Passive Voice”, “Numeral”, “Adjectives”, “Modal verbs”;
- main grammatical and lexical features of translation of literature on the topic “Geoecology. Ecological problems. Types of Pollution”
- basic rules of work with scientific and technical literature;
- morphemes and word-formation models used for creating terminology of civil engineering;
- clichés typical for scientific and professional literature.

Learning outcomes:

- to read and understand the original literature on the specialty in order to obtain the necessary information;
- to take part in conversations, discussions and dialogues on the topics of the module;
- understand a foreign language while listening (listening to audio, watching video on the topics of the module);
- make a presentation in English on one of the topics of Module №2;
- recognize grammatical phenomena and correlate their form with meaning when working with texts.

Topic 1. The Earth as a planet.

Components of the Earth. Physical processes of the Earth. Monitoring of the Earth’s phenomena. Man and the Earth. Composition of atmosphere. Oceans and seas on the Earth. Measuring of shape and form of the Earth. Monitoring of tectonics plates movement.

Topic2. Geoecology.

Geoecology as a science. Geological environment: lithosphere, hydrosphere, atmosphere. Interaction with biosphere. Problems of ecosystems functioning. Maintenance issue of interrelations and survival of vegetative and animal world species.



Topic 3. Varieties of pollution.

Biodegradable pollutants. Non-biodegradable pollutants. Professional diseases and their causes. Industrial revolution, its consequences. Pollution of soils, water resources, air by industrial wastes.

Topic 4. Water pollution.

Pollution of fresh water resources. Problems with drinking water. Consequences of chlorine accumulation in the sea water bodies. Pollution of water bodies in industrial regions and large cities.

Topic 5. Air pollution.

Quality air standards. Air pollution in industrial regions and large cities. Consequences of urbanization. Air pollution inside placement.

Topic 6. Soil pollution.

Pollution factors of industrial regions soils and agricultural purpose soil. Consequences of urbanization. Non-rational soil usage.

Topic 7. Combustion.

Types and causes of combustion. Natural factors of combustion. Human factor in combustion fighting. Monitoring of cities and natural resources.

Topic 8. Noise pollution of large cities.

Variety of noise pollution. Noise pollution problems from different kinds of transport and industry. Rhythm of life in modern cities.

Topic 9. Technoecology.

Negative impact on environment due to mining and using of energy resources. Transport system impact. Influence of recreation human activities on environment.

Topic 10. Industrial waste pollution.

Industrial revolution and its consequences. Pollution of soil. Water, air with industrial wastes.

Topic 11. Oil pollution.

Oil pollution. Consequences of raw and unprocessed oil split for flora and fauna in sea bodies on the planet.

Topic 12. Pollution from aircraft and space equipment.


Water pollution due to airports activities. Air pollution due to aircraft wastes. Impact of lubricant components on soil and water.

Topic 13. Greenhouse effect and consequences of global warming.

Reasons of greenhouse effect emergence, disturbance of ecosystem balance. Impact of greenhouse effect on health. Global warming. Research of global warming issues and survival of humanity. Changes of climatic conditions. Consequences of temperature fluctuations changes.

Topic 14. The Earth and radioactive pollution.

Nuclear energetics in the world and Ukraine. Nuclear weapons. Consequences of nuclear bomb explosion during the World War II. Pollution of the saline water bodies. Chernobyl. Consequences of radiation pollution on environment.

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2.3. Training schedule of the subject.

Table 2.1

№	Topic (subject part)	Academic Hours		
		Total	Practicals	Self-study
1	2	3	4	5
Module №1 “Higher Education in the World. Ecology and Ecosystem. Biosphere. Ecological Education”				
1.1	The system of general and Higher education in Britain and the USA. Simple sentences. Types of questions.	1 semester		
		4	2	2
1.2	Areas of professional education. Present simple. Present continuous.	4	2	2
1.3	Ecology and ecosystems. Types of ecosystems. Past simple.	4	2	2
1.4	Components of ecosystems: living and non-living. Past continuous.	4	2	2
1.5	Classification of living organisms in any ecosystem. Future simple	4	2	2
1.6	Lithosphere. Hydrosphere. Atmosphere. Future continuous.	3	2	1
1.7	Role of green plants and soil formation process. Present perfect.	3	2	1
1.8	Ecosystems and ecotones. Producers, consumers and decomposers. Present Perfect continuous.	3	2	1
1.9	V. Vernadsky: theory of biosphere. Modern researches of biosphere. Past perfect and past perfect continuous..	3	2	1
1.10	V. Vernadsky: theory of noosphere. Modern scientists about noosphere. Revision of all past tenses.	3	2	1
1.11	Ecological education in Higher educational establishments in Ukraine. Future perfect, future perfect continuous.	3	2	1
1.12	Location of recreational land in Ukraine. Significance of protected natural reserves. Revision of all tenses in Active Voice.	3	2	1
1.13	Endemic animals and plants of the Carpathian region of Ukraine. Infrastructure of green tourism. Revision of all tenses in Active Voice.	3	2	1
1.14	Elanetskyi steppe. Climate conditions of the steppe on the Right-bank of Ukraine. Future Simple tense. Revision of all tenses in Active Voice	3	2	1
1.15	Natural reserve Sviaty Hory. Importance of lower reaches soils in valleys of the river Siversky Donets. Revision of all tenses in Active Voice.	3	2	1
1.16	Presentation on module №1	6	2	4
1.17	Module test №1	4	2	2
Total for Module №1		60	34	26
Total for the 1st Semester		60	34	26
Module №2 “Geocology. Ecological problems. Types of Pollution”.				



1	2	3	4	5
2.1	Components of the Earth. Physical processes of the Earth. Past Perfect. Article (definite, indefinite). Article with abstract and proper nouns.	2semester		
		5	2	3
2.2	Geocology: geological environment. Noun. Countable, uncountable nouns. Plural form. Possessive case.	5	2	3
2.3	Biodegradable pollutants. Non-biodegradable pollutants. Nouns : plural form. Future Perfect, Future Perfect Continuous.	5	2	3
2.4	Pollution of fresh water resources. Pollution of water bodies in industrial regions. Countable, uncountable nouns. Numeral: ordinal and cardinal numerals.	5	2	3
2.5	Air pollution: causes and consequences. Numbers: fractions, power.	54	2	3
2.6	Industrial regions soils and agricultural purpose soil. Passive Voice.	5	2	3
2.7	Types and causes of combustion. Passive Voice: Simple Tenses. Interrogative and negative sentences.	5	2	3
2.8	Variety of noise pollution. Noise pollution problems. Pronouns. Adjective. Adjective order in a sentence.	5	2	3
2.9	Technoecology: negative impact on environment. Passive Voice : Continuous tenses), interrogative sentences.	5	2	3
2.10	Industrial waste pollution and its consequences. Passive Voice: Perfect tenses. General and special questions. Sequence of Tenses	5	2	3
2.11	Consequences of oil spill in sea bodies. Passive voice (past tenses). Alternative questions.	4	2	2
2.12	Negative influence of airports activities and aircraft wastes. Conditional sentences of the zero and first types.	4	2	2
2.13	Greenhouse effect. Research of global warming on survival in changing climatic conditions. Conditional sentences of the second and third types.	4	2	2
2.15	Nuclear energetics in the world. Consequences of radiation pollution on environment. Revision of all tenses in Active and Passive voice.	4	2	2
2.15	Presentation on module №2.	5	2	3
2.16	Module test №2.	4	2	2
Total for Module №2		75	32	43
Total for the 2nd Semester		75	32	43
Total for the subject		135	66	169

2.4. List of Examination Questions

The list of questions and content of tasks for the preparation for the exam are developed by the leading teacher of the department according to the course training program, approved at the meeting of the department and distributed among students.



3. TEACHING AND METHODOLOGICAL MATERIALS

3.1. Teaching methods

It is recommended to use the following teaching methods during mastering the subject:

- using interactive technologies during practicals;
- written and oral home assignments;
- students’ self-study while learning theoretical material in the process of preparing to practicals;
- explanatory and illustrative method;
- problem-based learning;
- case study;
- brainstorming;
- project method,
- discussions (in the form of a “round table”, “panel discussion”, etc.);
- role plays, work in pairs and small groups;
- presentations.

3.2. List of references

Basic Literature

3.2.1. Захарчук Н.В. Modern Ecological Issues : зб. матер. / Н.В. Захарчук, Л.Й. Іщенко, Н.В. Глушаниця. – К.: НАУ, 2010. – 149 с.

3.2.2. Шостак О.Г. Professional English. Biotechnology. : навч. посіб. / О.Г. Шостак, С.В. Харицька – К. : НАУ, 2016. – 224с.

3.2.3. Шостак О.Г., Рибалко М.-М. О. Professional English. The Land Surveying and Cadastre: підручн. – К.: Університет «Україна», 2013. – 432 с..

3.2.4. Davydova N., Nikitchenko I. English for Natural Sciences : навч. посіб. / N. Davydova, I. Nikitchenko.– К.,2004. – 407 с.

3.2.5. Барановська Т.В. Граматика англійської мови. Збірник вправ: навч.посібник. – Київ: ТОВ ВП «Логос-М», 2009. – 382с.

Additional Literature

3.2.6. Virginia Evans. Round-Up 3. English Grammar Book. Pearson Education Ltd. 2003, 160p.

3.2.7. Harrison M. Oxford Practice Grammar. Basic. – Oxford Practice, 2006. – 266p.

3.2.8. Virginia Evans. Round Up 5. Grammar book. – Longman, 2004. – 210 p.

3.3. Internet Resources

3.3.1. <https://www.britannica.com>

3.3.2. <https://www.worldatlas.com>

3.3.4. <http://eco.com.ua/category/topics/ecology-human>

3.3.5. <http://eco.com.ua/category/topics/environmental-monitoring>

3.3.3. <https://learnenglish.britishcouncil.org/>

3.3.4. <https://www.sciencenewsforstudents.org/>

3.2.6. <https://www.eolss.net>

3.2.7. <https://www.ldeo.columbia.edu>



4. RATING SYSTEM OF KNOWLEDGE AND SKILLS ASSESSMENT

4.1. Grading of different kinds of academic work performed by a student is done in accordance with Table 4.1.

Table 4.1

Assessment of various types of students' learning activities

Kind of Academic Activities	Max Grade
Module №1	
Text reading, translation and discussion, knowledge of terminology (7 texts × 5 points)	1 semester
	35
Text retelling (2 texts × 5 grades)	10
Conversation on topic (dialogues) (4 dialogues × 5 grades)	20
Knowledge of grammar (testing)	6
Preparing a presentation on the topic	9
<i>To be allowed to write Module Test №1 a student is to gain not less than</i>	<i>48 grades</i>
Module Test № 1	20
Total for Module №1	100
Total Semester Grade	100
Module №2	
Text reading, translation and discussion, conversation on topic (4 texts × 5 grades)	2 semester
	20
Text retelling	5
Knowledge of grammar (testing)	6
Preparing a presentation on the topic	9
<i>To be allowed to write Module Test №2 a student is to gain not less than</i>	<i>24 grades</i>
Module Test № 2	20
Total for Module №2	80
Semester Examination	20
Total Semester Grade	100

4.2. A student is considered to have passed the module if both his/her Current Module Grade and Module Test Grade are positive.

4.3. The Semester Module Grade is calculated as the sum of the Total Module Grades.

4.4. The Semester Module Grade and the Graded Test together make up a Total Semester Grade which is calculated according to the National Scale and the ECTS Scale.

4.5. The Total Semester Grade in points, the National Scale and the ECTS Scale is written into a student's record book, for example: **92/Ex/A**, **87/Good/B**, **79/Good/C**, **68/Sat/D**, **65/Sat./E**, etc.

4.6 The Total Semester Grade of the subject are determined as the arithmetic average grade of the total semester grades in points (from the first to the second semesters for this subject) with its further transformation into National Scale and ECTS Scale.

The indicated Total Semester Grade of the subject is entered in the Diploma Supplement.



(Ф 03.02 – 01)

АРКУШ ПОШИРЕННЯ ДОКУМЕНТА

№ прим.	Куди передано (підрозділ)	Дата видачі	П.І.Б. отримувача	Підпис отримувача	Примітки

(Ф 03.02 – 02)

АРКУШ ОЗНАЙОМЛЕННЯ З ДОКУМЕНТОМ

№ пор.	Прізвище ім'я по-батькові	Підпис ознайомленої особи	Дата ознайомлення	Примітки

(Ф 03.02 – 04)

АРКУШ РЕЄСТРАЦІЇ РЕВІЗІЇ

№ пор.	Прізвище ім'я по-батькові	Дата ревізії	Підпис	Висновок щодо адекватності

(Ф 03.02 – 03)

АРКУШ ОБЛІКУ ЗМІН

№ зміни	№ листа (сторінки)				Підпис особи, яка внесла зміну	Дата внесення зміни	Дата введення зміни
	Зміненого	Заміненого	Нового	Анульованого			

(Ф 03.02 – 32)

УЗГОДЖЕННЯ ЗМІН

	Підпис	Ініціали, прізвище	Посада	Дата
Розробник				
Узгоджено				
Узгоджено				
Узгоджено				