

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
National Aviation University
 Faculty of Environmental Safety, Engineering and Technologies
 Department of Environmental Sciences

AGREED

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«___» _____ 2023

APPROVED

Vice-Rector for Academics
 _____ Anatolii POLUKHIN

«___» _____ 2023



Quality Management System

COURSE TRAINING PROGRAM**on****«Environmental Audit and Environmental Control»**

Educational Professional Program: Ecology and Environmental Protection

Field of study: 10 Natural Sciences

Specialty: 101 Environmental Sciences

Training Form	Semester	Total (hours/credits ECTS)	Lectures	Practicals	Lab. classes	Self-study	HW/CGP	TP/CP	Semester Grade
Full-time	8	135/ 4,5	30	30	-	75	HW	-	8 - Exam
External	8,9	135/ 4,5	8	8	-	119	CW	-	9 - Exam

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QMS NAU CTP 10.03.02-01-2023



Course Training Program on «Introduction into Major» is developed on the basis of the Educational Professional Program on «Ecology and Environmental Protection», Bachelor Curriculum and Extended Bachelor Curriculum CB-3-101/21 and ECB-3-101/21 for the Specialty 101 «Environmental Sciences» and corresponding normative documents.

Developed by:

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The Course Training Program was discussed and approved by the Scientific-Methodical-Editorial Board of the Faculty of Environmental Safety, Engineering and Technologies, Minutes № ___ as of «___» _____ 2023

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«___» _____ 2023

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Master copy



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INTRODUCTION

Course Training Program (CTP) of the subject «Environmental Audit and Environmental Control» is developed on the basis of «Methodical instructions for the development and design of the Course Training Program for the subject», enacted by the order as of 29.04.2021 № 249/од and corresponding normative documents.

1. EXPLANATORY NOTES

1.1. Place, objectives, tasks of the subject:

The place of the discipline in the professional training system of a specialist. This educational discipline is the theoretical and practical basis of a set of knowledge and skills that form the profile of a specialist in the field of natural sciences.

The aim of the teaching discipline "Environmental Audit and Environmental Control" is to form future specialists' base of theoretical knowledge and practical skills in environmental audit and control, necessary for solving the environmental problems of today, as well as to prepare them to independently make timely and scientifically based decisions to increase the level of environmental safety of any production, checking its potential for environmental risks and carrying out environmental preventive measures.

The tasks of the subject are:

- ⑩ mastering the theoretical foundations and conceptual provisions of national and branch importance in environmental audit;
- ⑩ formation of a holistic view of environmental audit activity;
- ⑩ mastery of ecological and auditing terminology;
- ⑩ studying the structure of the Law of Ukraine "On Environmental Audit";
- ⑩ familiarization with the legislative framework of Europe and the world on environmental audit and control, environmental protection and use of natural resources;
- ⑩ acquisition of practical skills for independent conducting of eco-audits in territories, water areas, enterprises or industries, as well as analysis of environmental policy, environmental management, environmental education;
- ⑩ the ability to identify actions that contradict the requirements of the environmental legislation of Ukraine and adjust the organization's environmental management system to bring its activities into compliance with the norms of environmental legislation.

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

- PLO 07. Solve problems in the field of environmental protection using generally accepted and standard approaches and international and domestic experience;
- ⑩ PLO 08. Be able to search for information using relevant sources to make informed decisions;
- ⑩ PLO 17. To be aware of the responsibility for the effectiveness and consequences of the implementation of comprehensive environmental protection measures;
- ⑩ PLO 20. Be able to formulate requests and determine actions that ensure compliance with the norms and requirements of environmental legislation;
- ⑩ PLO 24. To understand and realize one's rights and responsibilities as a member of society, to be aware of the values of a free democratic society, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.



1.3. Competences the subject makes it possible to acquire:

- GC 01. Knowledge and understanding of the subject area and professional activity;
- GC 03. Ability to adapt and act in a new situation;
- GC 07. The ability to act socially responsibly and consciously;
- GC 12. The ability to realize one's rights and responsibilities as a member of society, to be aware of the values of a civil (free democratic) society and
- PC 17. Knowledge of modern achievements of national and international environmental legislation;
- PC 19. Ability to use basic principles and components of environmental management.

1.4. Interdisciplinary connections.

The subject is based on the knowledge of such disciplines as "Introduction into Major", "General ecology and neocology", "Balanced nature use and resource conservation", "Evaluation of the effectiveness of nature use", "Nature protection legislation" and is the basis for studying the following disciplines, namely: "Normalization of anthropogenic load on the environment", "Organization and management in environmental protection activities".

2. COURSE TRAINING PROGRAM ON THE SUBJECT

2.1. The subject content

The educational material of the subject is structured on a modular principle and consists of **two** educational modules, namely:

- Module 1 «**Scientific foundations, legislative basis of environmental audit and conceptual provisions regarding its implementation in Ukraine**» and
- Module 2 «**Methodological foundations of environmental audit and control. Examples of special audit techniques**», each of which is a logically completed, relatively independent, integral part of the subject, the mastering of which involves a modular test and analysis of its results.

2.2. Modular structuring and integrated requirements for each module

Module 1 «Scientific foundations, legislative basis of environmental audit and conceptual provisions regarding its implementation in Ukraine»


Integrated requirements of Module 1:

to know:

- basic terms and definitions: environmental audit, environmental safety, environmental expertise, environmental efficiency, environmental inspection, environmental certification, environmental policy, environmental goal, environmental legislation, environmental regulation, environmental planning, environmental law, environmental management, environmental costs, environmental criteria, ecological priorities, ecological programs, ecological systems, ecological characteristics, ecological management, ecological monitoring, ecological standardization, ecological certification, ecological approach, ecological management system, ecological management standards;
- the purpose, essence, tasks of environmental audit;
- types and levels of environmental audit;
- European features of environmental audit: eco-management and audit system (SEMA); approval procedure and content of environmental statements;
- the requirements of the European Bank for Reconstruction and Development for the information support of SEMA;
- environmental protection documentation of enterprises;

be able:

- form an audit team;
- to prepare environmental audit reports;
- make an economic analysis of options for reducing the amount of waste;
- to prepare reports on conducting an express audit.

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Topic 1. Purpose, task, definition of environmental audit, its features, status, meaning.

The history of the development of environmental audit in the world, Europe and Ukraine. The emergence of the concept of "environmental audit", its modern purpose, tasks, and status. Definition of terms: environmental audit, environmental safety, environmental expertise, environmental efficiency, environmental inspection, environmental certification, environmental policy, environmental goal, environmental legislation, environmental regulation, environmental planning, environmental law, environmental management, environmental costs, environmental criteria, environmental priorities etc.

Topic 2. Legislative and regulatory framework of environmental audit. System of environmental management and audit (SEMA), standards of the ISO 14000 series.

Levels and scope of environmental audit. DSTU ISO 14001:2006, 14004:2006. Definition of terms: auditor, environmental management system, continuous improvement, adjustment, document, environmental aspect, environmental impact, environmental task, stakeholder, internal audit, non-conformity, preventive action, environmental pollution prevention, protocol, environmental audit planning, environmental audit state of the enterprise.

Development of the Law of Ukraine "On Environmental Audit". Objects, subjects and forms of environmental audit. Criteria and principles of environmental audit. Environmental audit evidence and conclusion. Rights and obligations of the customer and the executor of the environmental audit.

Topic 3. Purpose and tasks of environmental certification of territories and enterprises. Application for environmental audit.

Environmental and economic security of enterprises. The essence and significance of environmental certification of territories and enterprises.

Assessment of environmental aspects of enterprises. Data on emissions and discharges of industrial facilities, waste generation. Consumption of raw materials, energy, water in production. Noise pollution of the working area, industrial area and the environment. Environmental policy of the enterprise, system of environmental management and audit on it.

Topic 4. Conceptual provisions regarding the introduction of environmental audit in Ukraine. Areas of application of environmental audit.

Objectives and types of audit, its conclusions and recommendations. Environmental audit report. Environmental audit activity. Methodology of a typical environmental audit process, its stages and steps. Environmental audit protocol and plan. Overview of the production process. Preparation and submission of an environmental audit report.

Environmental audit of cleaning equipment, environmental audit of the area. Eco-audit of groundwater protection against pollution. Environmental audit of waste and technological processes.

Topic 5. Types of environmental audit in Ukraine and environmental safety of enterprises. Privatization, investment and energy environmental audit. Comprehensive audit of modernizing enterprises. Environmental management system audit.

Environmental safety of enterprises. A typical list of goals.

Module 2 «Methodological foundations of environmental audit and control. Examples of special audit techniques»

Integrated requirements of Module 2:

- to know:

- - the method of carrying out an environmental audit;
- Laws of Ukraine "On environmental protection" (chapter "Environmental audit"); "On environmental audit";
- International standards of the ISO 14000 series; ISO 19011; other regulatory documents.



- be able:

- choose the method of conducting an environmental audit in accordance with the features of the object;
- draw conclusions, give recommendations on improving the eco-management system;
- draw up waste flow schemes, determine ways to reduce them;
- carry out environmental certification of enterprises, territories, water areas;
- draw conclusions and give recommendations regarding the quality of programs of environmental activities of organizations and industries.

Topic 1. Methodological foundations and principles of environmental audit.

Principles, goals, types of environmental audit and requirements for it. System of state and departmental nature protection, investment and economic laws, environmental norms, standards and requirements. Actual indicators, documents, characteristics collected during the environmental audit at the enterprise.

Topic 2. Environmental audit activity.

Environmental audit objects and subjects. Environmental audit activity, its features. Functioning of the system of environmental auditing in Ukraine. Scope and limits of environmental audit. Development of DSTU ISO 19011:2003.

Topic 3. Examples of special auditing techniques.

Methodology of environmental audit of enterprise waste minimization. Protocol for assessing the environmental condition of the industrial site (locality). Ecological express assessment of the industrial site (locality).

Topic 4. The practice of introducing an environmental audit in Ukraine.

Application of environmental audit in various branches of economic activity. Systemic and ecological approach to enterprise (industry) development. Evaluation of environmental audit facts according to the priority scheme. Development of recommendations for improving the environmental policy of the enterprise.

Topic 5. Experience of using environmental audit abroad.

Canadian experience. Development of current environmental programs: environmental management systems, improvement of atmospheric air, management of hazardous materials, land and flora, waste management, improvement of water quality. Drawing up production waste flow schemes and reducing their quantity and toxicity.


2.3. Training schedule of the subject



№	The name of the topic (thematic section)	Academic hours							
		Full-time teaching				Part-time teaching			
		Total	Lectures	Practical	Self-study	Total	Lectures	Practical заняття	Self-study
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

Module 1 «Scientific foundations, legislative basis of environmental audit and conceptual provisions regarding its implementation in Ukraine»									
1.1	Purpose, task, definition of environmental audit, its features, status, meaning.	8 semester				8 semester			
		8	2	2	4	14	2	2	10
1.2	Legislative and regulatory framework of environmental audit.	18	4	4	10	14	2	2	10
1.3	System of environmental management and audit (SEMA), standards of the ISO 14000 series.	12	2	2	8	10	-	-	10
1.4	The purpose and tasks of environmental certification of territories and enterprises.	10	2	2	6	10	-	-	10
1.5	Conceptual provisions on the introduction of environmental audit in Ukraine.	8	2	2	4	10	-	-	10
1.6	Types of environmental audit in Ukraine and environmental safety of enterprises.	10	2	2	6	10	-	-	10
1.7	Module test 1	8	2	2	4	-	-	-	-
Total for Module 1		74	16	16	42	68	4	4	60
Module 2 «Methodological foundations of environmental audit and control. Examples of special audit techniques»									
2.1	Methodological foundations and principles of environmental audit.	8 semester				9 semester			
		8	2	2	4	13	2	2	9
2.2	Environmental audit activity.	8	2	2	4	10	-	-	10
2.3	Examples of special audit techniques.	10	2	2	6	10	-	-	10
2.4	The practice of introducing an environmental audit in Ukraine.	13	4	4	5	10	-	-	10
2.5	Experience of using environmental audit abroad.	10	2	4	4	12	2	-	10
2.6	Module test 2	4	2	-	2	-	-	-	-
2.7	Home task	8	-	-	8	-	-	-	-

2.6	Module test 2	4	2	-	2	-	-	-	-
2.8	Homework (CPT)	-	-	-	-	8	-	-	8
2.9	Final semester test (CPT)	-	-	-	-	4	-	2	2
Total for Module 2		61	14	14	33	67	4	4	59
Total for the subject		135	30	30	75	135	8	8	119

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2.4. Home task

Homework in the discipline is performed in the eighth semester with the aim of consolidating and deepening the theoretical knowledge and practical skills acquired by the student in the process of mastering the educational material of the discipline.

The purpose of the homework is to acquire higher education students practical skills of applying the mechanism of environmental audit in practice along with an in-depth study of the domestic legislative and regulatory framework on issues of environmental audit and control. Applicants must develop a plan for carrying out an environmental audit at a specific production site with the recording of possible violations of environmental legislation by the economic entity and provide recommendations for their elimination.

The topic of research, the substantive part within the limits of a certain environmental violation is chosen by the student of higher education, discussed with the supervisor and approved.

Completion, design and protection of homework is carried out by the applicant individually in accordance with methodical recommendations. The time required for homework is 8 hours of independent work.

2.5. Control (home) work (CPT).

Control (homework) work on the discipline "Environmental audit and environmental control" is performed in the ninth semester for correspondence students, with the aim of consolidating and deepening the theoretical knowledge and practical skills acquired by the student in the process of mastering the educational material of the discipline.

The specific purpose of performing control (homework) work is the formation of a system of environmental auditing views, approaches and knowledge in students, raising the level of environmental awareness, thinking, ethics and environmental legal culture.

The tasks to be performed are developed by the author of the work program. Educational materials are approved by the minutes of the meeting of the graduation department, are brought to the attention of higher education applicants individually and are carried out in accordance with methodical recommendations.

2.6. List of questions for preparing for the final test.

The list of questions and the content of the tasks for preparation for the final control paper in the discipline "Environmental audit and environmental control" are developed by leading teachers and approved by the protocol of the department meeting and brought to the attention of students of higher education.

2.7. Questions List for Examination

The list of questions and the content of tasks for preparation for the exam are developed by a leading teacher of the department in accordance with the coarse training program, approved at the meeting of the department and communicated to the students.

3. BASIC CONCEPTS OF GUIDANCE ON THE SUBJECT


3.1. Teaching methods

The following teaching methods are used in the study of the discipline: explanatory-illustrative method; method of problem statement; reproductive method; research method.

3.2. List of references (basic and additional)

Basic literature

- 3.2.1. Shevchuk V. Ya., Satalkin Yu. M., Bilyavskiy G. O. and others. Environmental management: a textbook. - K.: Lybid, 2004. - 432 p.
- 3.2.2. Dmytrenko I.A. Environmental Law of Ukraine: Textbook / I.A. Dmytrenko. - K.: Yurinkom Inter, 2020. - 352 p.
- 3.2.3. The Law of Ukraine "On Environmental Protection" dated June 25, 1991.

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- 3.2.4. Law of Ukraine "On Environmental Audit" dated June 24, 2004
- 3.2.5. Mishchenko L. V., Hrytsyuk M. G. Ecological audit of territories: teaching. manual / edited by O. M. Adamenko. - Ivano-Frankivsk: IME "Halytska Academy", 2008. - 268 p.
- 3.2.6. DSTU ISO 14004:2016 "Environmental management systems. General guidelines for implementation".
- 3.2.7. DSTU ISO 14001:2015 "Environmental management systems. Requirements and guidelines for use".
- 3.2.8. DSTU ISO 19011:2012 "Guidelines for audits of management systems".
- 3.2.9. Environmental management and audit: a study guide / S. M. Litvak et al. - K.: V. D. "Professional", 2005. - 112 p.

Supporting literature

- 3.2.10. Kibych I.V. Management of the organization of environmental protection activities: training. manual – Chernivtsi: Ruta, 2019. – 104 p.
- 3.2.11. Bilyavskiy G.O., Furduy R.S., Kostikov I.Yu. Basics of ecological knowledge: Textbook. - K.: "Lybid", 2000. - 320 p.
- 3.2.12. Sinzynys B.I., Tyantova E.M., Melehova O.P. Environmental risk: Education. guide for universities / Ed. G.V. Kozmina. - K.: Logos, 2005. - 168 p.
- 3.2.13. Ecological management: Study guide / Ed. V. F. Semenova, O. L. Mykhailiuk. - K.: Znannia, 2006. - 366 p.

3.3. Internet resources

- 3.3.1. <https://ecoapu.com.ua/site/service?id=8>
- 3.3.2. <https://zakon.rada.gov.ua/laws/show/>
- 3.3.3. <https://ec.europa.eu/programmes/erasmus-plus/project-result-content/ead800f4-e35a-445d-bb1b-efe23439b54c/%D0%9D%D0%B0%D0%B2%D1%87%D0% %B0%D0%BB%D1%8C%D0%BD%D0%B8%D0%B9%20%D0%BF%D0%BE%D1%81%D1%96%D0%B1%D0%BD%D0% %B8%D0%BA.pdf>
- 3.3.4. <http://epl.org.ua/images/pdf/people/ EUROPEAN UNION ENVIRONMENTAL LAW.pdf>

4. RATING SYSTEM OF KNOWLEDGE AND SKILLS ASSESSMENT

4.1. Assessment of certain types of academic work performed by the student is carried out in points in accordance with table 4.1.

Table 4.1




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Learning work	Max number of points		Learning work	Max number of points	
	Full-time teaching	Part-time teaching		Full-time teaching	Part-time teaching
	8th semester	8th semester		8th semester	9th semester
Module No. 1 "Scientific foundations, legislative basis of environmental audit and conceptual provisions regarding its implementation in Ukraine"			Module No. 2 "Methodological foundations of environmental audit and control. Examples of special methods of audits"		
Learning work	points	points	Learning work	points	points
Execution and protection of practical works, problem solving, answers to theoretical questions (1.3-1.4)x9 p.; 1.7x8b, 1.7x9p.	35 (summarily)	–	Implementation and defense of practical work, problem solving, answers to theoretical questions (2.1,2.2,2,5) x6p.; 2.7.x7p.	25 (summarily)	–
			Doing homework	10	–
Answers in practical classes (taking into account the tasks received during the training session)	–	–		–	50
	–	–	Doing homework	–	20
In order to be admitted to the modular test #1, a student must score at least	21	–	In order to be admitted to the modular test #2, a student must score at least	21	–
			Final semester test	–	30
Execution of modular control work № 1	15	–	Execution of modular control work № 2	15	–
In total according to module №1	50	–	In total according to module №2	50	–
Total by modules №1, №2				100	100
Total by discipline				100	

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The credit rating is determined (on a national scale) based on the results of all types of educational activities during the semester

- 4.2. The kind of academic work, performed by a student, has been passed, if a student got positive grade (Appendix 3).
- 4.3. The grades a student has been given for the different kinds of academic work the summed up and the result constituting a Current Module Grade is entered into the Module Grade Register.
- 4.4. The Semester Module Grade and the examination grade are summed up and recalculated according to the National system and ECTS (Appendix 5).
- 4.5. The Total Semester Grade is entered 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 final rating of the subject is equal to the final semester rating. The specified final rating assessment in 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

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Додаток 3

Відповідність оцінок у балах оцінкам за національною шкалою
(рекомендовані значення)

Оцінка у балах												Оцінка за національною шкалою
3	4	5	6	7	8	9	10	11	13	14	15	
3	4	5	6	7	8	9	9-10	10-11	12-13	13-14	14-15	Відмінно
2,5	3	4	5	6	6-7	7-8	8	9	10-11	11-12	12-13	Добре
2	2,5	3	4	4-5	5	6	6-7	7-8	8-9	9-10	9-11	Задовільно


Оцінка у балах												Оцінка за національною шкалою
16	17	18	19	20	21	22	23	24	25	26	27	
15-16	16-17	17-18	17-19	18-20	19-21	20-22	21-23	22-24	23-25	24-26	25-27	Відмінно
12-14	13-15	14-16	15-16	15-17	16-18	17-19	18-20	18-21	19-22	20-23	20-24	Добре
10-11	10-12	11-13	12-14	12-14	13-15	13-16	14-17	15-17	15-18	16-19	16-19	Задовільно

Оцінка у балах												Оцінка за національною шкалою
28	29	30	31	32	33	34	35	36	37	38	39	
26-28	26-29	27-30	28-31	29-32	30-33	31-34	32-35	33-36	34-37	34-38	35-39	Відмінно
21-25	22-25	23-26	23-27	24-28	25-29	26-30	27-31	27-32	28-33	29-33	29-34	Добре
17-20	18-21	18-22	19-22	19-23	20-24	20-25	21-26	22-26	22-27	23-28	24-28	Задовільно

Оцінка у балах												Оцінка за національною шкалою
40	41	42	43	44	45	46	47	48	49	50	51	
36-40	37-41	38-42	39-43	40-44	41-45	42-46	43-47	43-48	44-49	45-50	46-51	Відмінно
30-35	31-36	32-37	32-38	33-39	34-40	35-41	35-42	36-42	37-43	38-44	38-45	Добре
24-29	25-30	25-31	26-31	27-32	27-33	28-34	28-34	29-35	30-36	30-37	31-37	Задовільно

Оцінка у балах												Оцінка за національною шкалою
52	53	54	55	56	57	58	59	60	61	62	63	
47-52	48-53	49-54	50-55	51-56	51-57	52-58	53-59	54-60	55-61	56-62	57-63	Відмінно
39-46	40-47	41-48	41-49	42-50	43-50	44-51	44-52	45-53	46-54	47-55	47-56	Добре
31-38	32-39	32-40	33-40	34-41	34-42	35-43	36-43	36-44	37-45	37-46	38-46	Задовільно

Оцінка у балах												Оцінка за національною шкалою
64	65	66	67	68	69	70	71	72	73	74	75	
58-64	59-65	60-66	60-67	61-68	62-69	63-70	64-71	65-72	66-73	67-74	68-75	Відмінно
48-57	49-58	50-59	50-59	51-60	52-61	53-62	53-63	54-64	55-65	56-66	56-67	Добре
38-47	39-48	40-49	40-49	41-50	41-51	42-52	43-52	43-53	44-54	44-55	45-55	Задовільно

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Додаток 4

Відповідність підсумкової семестрової рейтингової оцінки в балах оцінці за національною шкалою та шкалою ECTS

Оцінка в балах	Оцінка за національною шкалою	Оцінка за шкалою ECTS	
		Оцінка	Пояснення
90-100	Відмінно	A	Відмінно (відмінне виконання лише з незначною кількістю помилок)
82-89	Добре	B	Дуже добре (вище середнього рівня з кількома помилками)
75-81		C	Добре (в загальному вірне виконання з певною кількістю суттєвих помилок)
67-74	Задовільно	D	Задовільно (непогано, але зі значною кількістю недоліків)
60-66		E	Достатньо (виконання задовольняє мінімальним критеріям)
35-59	Незадовільно	FX	Незадовільно (з можливістю повторного складання)
1-34		F	Незадовільно (з обов'язковим повторним курсом)

