

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

NATIONAL AVIATION UNIVERSITY

Faculty of Transport, Management and Logistics

Air Transportation Management Department

AGREED

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Vice-Rector for Academic Affairs


«25» 06 2021

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Quality Management System
COURSE TRAINING PROGRAM
on
«Introduction into Major»

Educational Professional Program: «Air Transportation Management»

Field of study: 27 «Transport»

Speciality: 275 «Air Transport Technologies»

Specialization: 275.04 «Air Transport Technologies»

Training Form	Semester	Total (hours/credits ECTS)	Lectures	Practicals	Lab. classes	Self-Study	HW/CGP	TP/CP	Semester Grade
Full-time	1	105/3,5	17	34	—	54	—	—	Graded Tests

Index: CB-7-275-1/21-2.1.4

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Quality Management System.
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«Introduction into Major»

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2021

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Course Training Program on «Introduction into Major» is developed on the basis of Educational Professional Program «Air Transportation Management», Bachelor Curriculum and Bachelor Extended Curriculum №CB-7-275-1/21, №ECB-7-275-1/21 for Speciality 275 «Air Transport Technologies», Specialization 275.04 «Air Transport Technologies» and corresponding normative documents.

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INTRODUCTION

Course Training Program on «Introduction into Major» is developed based on the "Methodical guidance for the subject course training program", approved by the order № 249/од, of 29.04.2021 and corresponding normative documents.

1. EXPLANATORY NOTES

1.1. Place, objectives, tasks of the subject.

The subject is an integral part of the theoretical basis of knowledge and skills in training specialists of air transportation area, studying the technological subjects.

The objective of the subject is to accelerate the adaptation of students to the conditions of university life, acquainting them with the organization of the educational process and methods of study at the university, the profile of the specialty, the prospects for future professional activity.

The tasks of the subject are:


- acquaintance of first-year students with the University structure, the educational process organization, the rights and responsibilities of students;
- acquaintance with the multilevel system of higher education, credit-modular system;
- acquaintance with the educational-qualification characteristics and the Educational and Professional Program of bachelor training for specialty "Air Transport Technologies";
- acquaintance with the curricula for bachelors and masters in " Air Transport Technologies " and Educational and Professional Program "Air Transportation Management ";
- formation of a conceptual model of a specialist in air transport technologies;
- determination of prospects for the development of air transportation in Ukraine and abroad.

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

- Take responsibility, show public consciousness, social activity and participation in the life of civil society, think analytically, critically understand the world;
 - Critically evaluate the scientific values and achievements of society in the development of transport technologies;
 - Give answers, explain, understand explanations, discuss, report in the state language at a level sufficient for professional activity;
 - Investigate transport processes, experiment, analyze and evaluate the parameters of transport systems and technologies;
 - Formulate, modify, develop new ideas for improving transport technologies;
 - Develop, plan, implement methods of organizing safe activities in the field of transport systems and technologies;
 - Develop and use transport technologies taking into account the requirements for environmental protection;
 - Classify and identify transport processes and systems. Evaluate the parameters of transport systems. Perform system analysis;
 - Investigate the types and types of transport systems. Find solutions for optimizing the parameters of transport systems. Assess the efficiency of infrastructure and technology of transport systems.

1.3. Competences the subject makes it possible to acquire.

- Ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine;
- Ability to preserve and increase moral, cultural, scientific values and achievements of society based on 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 technology, use different types and forms of physical activity for active recreation and healthy living;
- Ability to develop and manage projects;
- Ability to analyze and predict the parameters and performance indicators of transport systems and technologies, taking into account the impact of the external environment;

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- Ability to organize and manage the transportation of goods (by mode of transport). Ability to apply modeling and optimization methods for effective management of complex technological and organizational and technical transport complexes;
- Ability to organize and manage the transportation of passengers and luggage (by mode of transport);
- Ability to quickly control the flow of traffic;
- Ability on the basis of certain requirements to synthesize the data structure required for the construction of information systems. Design the composition of interfaces for application programming (API) and for organizing the construction of the user interface when working with the database.

1.4. Interdisciplinary connections.

The subject is based on following subjects, as: як «Computer Engineering», and is basic for studying subjects, as: «General Course of Transport», «Transport Vehicles Operation», «Transport Geography», «Professional Training Introduction into Major», «Transport Infrastructure», «Fundamentals of Transport Processes Theory».

2. COURSE TRAINING PROGRAM ON THE SUBJECT

2.1. The subject content.

Training material is structured according to module principle and consists of **one educational module, Module № 1 «Introduction into Major»**, that is logically complete, relatively independent, holistic part of the subject, learning of which provides module test and analysis of its performance.

2.2. Modular structuring and integrated requirements for each module.

Module №1 «Introduction into Major»

Integrated requirements to module №1:

know:

- structure of the National Aviation University (NAU), faculties, departments;
- rights and responsibilities of the student, features of the organization of educational process in high school;
- the structure of industry standards of higher education in the specialty;
- the content of the curriculum and qualification requirements for specialists in the organization of air transportation;
- areas of future professional activity and employment prospects;
- the role of units and services for the organization of air transportation at airlines;
- significance and prospects of air transportation development in Ukraine and abroad.

be able:


- to exercise their rights and optimally plan their daily routine, organize their work, life and leisure;
- use library catalogs, special literature, keep notes of lectures;
- assess the complexity and fundamentality of knowledge and skills that he will acquire as a future specialist;
- determine the role, prospects and significance of their future profession.

Topic 1. The Importance of Air Transport in the World Economy.

Object, subject and tasks of the discipline "Introduction to the profession. The purpose of the educational program "Organization of transportation and management of transport (air)". General information and acquaintance with the basic concepts. General characteristics of the profession. Requirements for transport technology professionals in modern society.

Topic 2. The Structure of the Higher Educational Institution, the Structure of the Faculty.

The structure of higher education. Faculty structure. Student government in Ukraine. Tasks of student government at the university. Regulations on the Student Council of NAU. Categories of

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participants of the educational process and their characteristics. Rights and responsibilities of research and teaching staff. Students' rights and responsibilities.

Topic 3. Organization of Educational and Individual work of Students

Organization of educational and individual work of students. Basic principles of individual educational work of students. Organization of research work of students at the university and at the department.

Topic 4. Organization of the Educational Process at the University.

Organization of the educational process in the university. Multilevel system of higher education. Bologna process. Features of credit-module system of education and rating system of assessment of students' knowledge. Curriculum, educational program, schedule, schedule of the educational process. Types of training sessions. Regulations on exams and tests.

Topic 5. The Concept of Bachelors Education Standards.

European Credit Transfer and Accumulation System (ECTS). Concepts: qualification, qualification work, competence, national qualifications framework, educational (educational-professional or educational-scientific) program. Current requirements for the bachelor's degree program in transport technology: the amount of ECTS credits required to obtain the appropriate degree of higher education; list of competencies of the graduate in transport technologies; forms of certification of applicants for higher education.

Topic 6. The role of Transport in the Development of Society and Sectors of the Economy.

Brief historical information about the origin and development of transport. The task of transport. Transport functions. Structural and functional characteristics of transport. Transport products, its features and methods of its measurement.

Topic 7. The Concept of Transport System and Air Transport System.


Classification of the world transport system. The main parameters of the world transport system. Criteria for comparing transport systems of different regions. Regional differences in transport systems. Sectoral structure of the transport system. Airport as a functional system. Passenger complexes of airports. Passenger airport as a queuing system. Airline as a functional system. Handling companies. Technical and economic indicators of aircraft.

Topic 8. The Main Activities of Aviation Organizations, Their Role in the Organization of Air Transportation.

A brief overview of the objectives of international civil aviation organizations: ICAO, ECCA, IATA, Eurocontrol, JAA, EASA. Ministry of Infrastructure of Ukraine, its role. Aviation personnel certification system. ICAO and IATA certification system. The concept of aviation rules.

2.3. Training schedule of the subject.

№	Theme (thematic section)	Total, hours			
		Total	Lectures	Practicals	Self-study
1	2	3	4	5	6
Module № 1 «Introduction into Major»					
		1 semester			
1.1	The Importance of Air Transport in the World Economy	12	2	2	6
1.2	The Structure of the Higher Educational Institution, the Structure of the Faculty	12	2	2	6
1.3	Organization of Educational and Individual work of Students	12	2	2	6

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1.4	Organization of the Educational Process at the University	12	2	2 2	6
1.5	The Concept of Bachelors Education Standards	12	2	2 2	6
1.6	The role of Transport in the Development of Society and Sectors of the Economy	12	2	2 2	6
1.7	The Concept of Transport System and Air Transport System	12	2	2 2	6
1.8	The Main Activities of Aviation Organizations, Their Role in the Organization of Air Transportation.	13	2 1	2 2	6
1.9	Module Test №1	8	-	2	6
Total by the module №1		90	17	34	54
Total by the subject		105	17	34	54

3. BASIC CONCEPTS OF GUIDANCE ON THE SUBJECT

3.1. Teaching methods

The following teaching methods of subject guidance are

- explanatory and illustrative method;
- method of problem presentation;
- reproductive method;
- research method.

The implementation of these methods are carried out during lectures, demonstrations, self-study, work with the educational material, analysis of transport technologies issues.

3.2. List of references (basic and additional)

Basic literature

3.2.1. Закон України «Про вищу освіту» чинна редакція.

3.2.2. Закон України «Про наукову і науково-технічну діяльність» № 848-VIII від 26.11.2015 // «Голос України», 15.06.2016, № 6 (6260).

3.2.3. Дудник І.М. Транспортна географія. Підручник. – К.: НАУ, 2016.- 288 с.

3.2.4. Загальний курс транспорту: навч. посібник / О. О. Соловйова, І. І. Висоцька, І. М. Герасименко. – К.: НАУ, 2019. – 244 с.

Additional Literature

3.2.5. Alessandro Schiliro. Airlines – World. Market Analysis – 2015-2018/ Trends – Corporate Strategies. EU: xerfiGlobal, 2015. – 236 p.

3.2.6. Правила повітряних перевезень та обслуговування пасажирів і багажу (затверджені Наказом Державної авіаційної служби України від 26.11.2018 № 1239).

3.2.7. Airport Economics Manual, 4th Edition (DOC 9562). ICAO, 2020.

3.2.8. ІКАО. Посібник з регулювання міжнародного повітряного транспорту. Документ 9626, Видання третє - 2018 рік.

3.3. Internet Information resource


3.3.1. <http://er.nau.edu.ua/handle/NAU/43642>

3.3.2. <http://er.nau.edu.ua/handle/NAU/40708>

3.3.3. <http://www.dnaop.com/html/3681/doc-zakon-ukrajini-pro-transport>

3.3.4. <http://www.eurorecognition.eu/Manual/EAR%20HEI.pdf>

3.3.5. <https://www.iata.org/en/publications/>

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3.3.6. <https://www.icao.int/>

4. RATING SYSTEM OF KNOWLEDGE AND SKILLS ASSESSMENT

4.1. Assessment of certain kinds of student academic work is carried out in accordance with table 4.1.

Table 4.1

Kind of Academic Work	Maximum Grade Values
1 semester	
Module № 1 «Introduction into Major»	
Kind of Academic Work	Points
carrying out practicals and theoretical material (106 x 8)	80 (total)
<i>For admission to complete module test №1, a student must receive not less than</i>	<i>48 points</i>
Module test №1	20
Total by the module №1	100
Total by the subject	100

The credit rating is determined (in points and in a National Scale) based on the results of all types of academic work during the semester.

4.2. Completed types of educational work are credited to the student, if he received a positive rating for them.

4.3. The sum of rating assessments received by the student for certain types of completed academic work is the current modular rating assessment, which is recorded in the module control.

4.4. The final modular rating obtained by the student based on the results of the course defense and defense in points, on the national scale and ECTS scale is entered in the module control, as well as in the study card, individual student curriculum and Diploma Supplement, for example, as follows: **92 / Excellent / A, 87 / Good / B, 79 / Good / C, 68 / Sat./D, 65 / Sat./E, etc.**

4.5. The final semester rating is converted into a grade on the national scale and the ECTS scale.

4.6. The final semester rating in points, on the national scale and the ECTS scale is entered in the test report, study card and individual curriculum of the student (record book), for example, as follows: **92 / Excellent / A, 87 / Good / B, 79 / Good / C, 68 / Sat./D, 65 / Sat./E, etc.**

4.7. The Total Grade for the subject is equal to the average grade from Total Semester Grades with its further transformation into national scale and ECTS system.

The Total Grade is recorded to the Diploma Appendix

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(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				