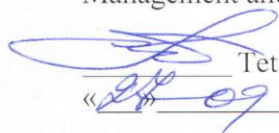


**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**  
**NATIONAL AVIATION UNIVERSITY**  
 Faculty of Transport, Management and Logistics  
 Air Transportation Management Department

AGREED

Dean of the Faculty of the Transport,  
Management and Logistics



Tetiana MOSTENSKA

«28» 09 2021

APPROVED

Vice-Rector for Academics




Anatolii POLUKHIN

«07» 10 2021



Quality Management System  
**COURSE TRAINING PROGRAM**  
 on  
**«Transport Economy»**

Educational and 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	120/4,0	17	-	17	86	-	-	Graded tests

Index CM-7-275/21-3.3

**QMS NAU CTP 19.01-01-2021**



Course Training Program on «Transport Economy» is developed on the basis of the Educational and Professional Program «Air Transportation Management», Master Curriculum and Extended Master Curriculum №CM-7-275-1/21, №ECM-7-275-1/21 for Speciality 275 «Air Transport Technologies», Specialization 275.04 «Air Transport Technologies» and corresponding normative documents.

Developed by:

Associate Professor of the  
Air Transportation Management Department  Olga KATERNA

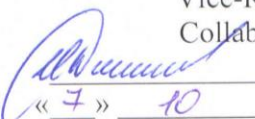
Associate Professor of the  
Air Transportation Management Department  Iryna BORETS


Discussed and approved by the Graduate Department for Specialty 275 «Air Transport Technologies», Specialization 275.04 «Air Transport Technologies» and Educational and Professional Program «Air Transportation Management» - Air Transportation Management Department, Minutes № 15 of 31.08.2021.

Guarantor of Educational and  
Professional Program  Iryna VYSOTSKA

Head of the Department  Dmytro SHEVCHUK


Vice-Rector on International  
Collaboration and Education

 Iryna ZARUBINSKA  
« 7 » 10 2021

	Quality Management System. Course Training Program «Transport Economy»	Document Code	QMS NAU CTP 19.01-01-2020
		page 3 of 9	

## CONTENTS

<b>Introduction .....</b>	<b>4</b>
<b>1. Explanatory notes .....</b>	<b>4</b>
1.1. Place, aim, objectives of the subject .....	4
1.2. Results of mastering the training course .....	4
1.3. Competencies of mastering the training course .....	4
1.4. Interdisciplinary connections .....	5
<b>2. Academic curriculum of the subject.....</b>	<b>5</b>
2.1. The subject content.....	5
2.2. Modular structuring and integrated requirements for each module.....	5
2.3. Subject structure.....	6
<b>3. Basic concepts of guidance on the subject .....</b>	<b>7</b>
3.1. Teaching methods.....	7
3.2. List of references (basic and additional) .....	7
3.3. Internet resources .....	8
<b>4. Rating system of knowledge and skills assessment .....</b>	<b>7</b>

	Quality Management System. Course Training Program «Transport Economy»	Document Code	QMS NAU CTP 19.01-01-2020
		page 4 of 9	

## INTRODUCTION

Course Training Program on «Transport Economy» 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. Place, objectives, tasks of the subject.

The subject is an integral part of the theoretical basis of knowledge and skills in training specialists in the field of transportation organization and management of transport (air).

**The objective** of the subject is to ensure the formation of a system of scientific knowledge and practical skills of specialists in the organization of air transportation in the field of production and sale of products of aviation enterprises.

The **tasks** of the subject are:


- mastering the basics of economic science regarding the methods of preparation, examination and assessment of the activities of aviation enterprises;
- mastering the main conceptual concepts, methods and approaches that are used in domestic and international practice in the implementation of economic assessment;
- improving the processes of making organizational and managerial decisions for the rational use and effective management of production, labor, financial and investment resources.

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

- find the necessary information in scientific and technical literature, databases, and other sources, to analyze and objectively evaluate information in the field of transport systems and technologies and from tangential intersectional problems;
- freely discuss the state and foreign languages issues of professional activity, projects and research in the field of transport systems and technologies orally and in writing;
- make effective decisions in the field of transport systems and technologies, taking into account technical, social, economic and legal aspects, generate and compare alternatives, assess the need for resources and restrictions, analyze risks;
- ensure the safety of people and the environment during professional activities and implementation of projects in the field of transport systems and technologies;
- organize work, to ensure its professional development and objective assessment;
- present the results of research activities, prepare scientific publications, participate in scientific discussions at scientific conferences, symposia and carry out pedagogical activities in educational institutions..

#### – 1.3. Competences the subject makes it possible to acquire.

- Ability to work in an international context;
- Ability to search, process and analyze information from various sources;
- Ability to develop and manage projects;
- Ability to conduct research at the appropriate level;
- Ability to conduct research within a narrow specialization, identify problems, set goals and solve them using appropriate research methods;
- Ability to study and manage the operation of transport systems and technologies;

	Quality Management System. Course Training Program «Transport Economy»	Document Code	QMS NAU CTP 19.01-01-2020
		page 5 of 9	

- Ability to formulate, analyze technological, technical, economic and financial problems in air transport, which can be related to both commercial practice and transport operations.

#### **1.4. Interdisciplinary connections.**

This subject is the basis for studying such subjects, as: "Methodology of applied research in the field of transport technologies (by types)", "Project management in the transport industry", "Management in integrated transport systems", "Supply chain management and logistics centers" and is basic for studying subjects, as: "Mathematical methods of modeling and optimization of transport systems and processes", "Freight forwarding", "Engineering of air transportation"..

## **2. ACADEMIC CURRICULUM OF THE SUBJECT**

### **2.1. The subject content.**

Training material is structured according to module principle and consists of **one educational module, Module № 1 «Main performance indicators of economic activity of air transport enterprises»**, 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 «Main performance indicators of economic activity of air transport enterprises»**

#### **Integrated requirements to module №1:**

**Know** the basics of economics in relation to methods of preparation, examination and evaluation of aviation enterprises; main conceptual concepts, methods and approaches used in domestic and international practice in conducting economic evaluation;

**Be able** to improve the processes of organizational and managerial decision-making for the rational use and effective management of production, labor, financial and investment resources.

#### **Topic 1. Fixed assets of aviation enterprises.**

Composition and structure of fixed assets of aviation enterprises, types of depreciation and amortization of fixed assets. Generalized indicators of the use of fixed assets: capital productivity, capital intensity, capital-labor ratio and profitability. Factors and ways to improve the use of fixed assets.

#### **Topic 2. Working capital of aviation enterprises.**

The economic essence and structure of the working capital of aviation enterprises. Turnover of circulating assets, its gauges, calculation method. Ways to accelerate the turnover of working capital. Economic efficiency of working capital. Resource saving as a way to intensify production.

#### **Topic 3. Salaries of aviation transport staff.**

Salaries as the most important factor in stimulating highly productive and high-quality work. Factors influencing the level and dynamics of salaries. Forms and systems of remuneration.

#### **Topic 4. Leasing of aircraft.**

Characteristics of leading leasing companies. Typical terms of a leasing agreement. Economic justification of aircraft leasing. Calculation of lease payments. Calculation of cash flows under aircraft leasing agreements.



### Topic 5. Elasticity of demand for air transport.

Elasticity of demand in the planning of transport services and analysis of the transport market. Elasticity of demand and three main types of elasticity in the transport sector: the actual price elasticity, cross-elasticity of demand for price, elasticity of demand for income.

### Topic 6. Features of pricing in air transport.

The essence and definition of prices. Types and structure of prices. Formation of air transportation tariffs.

### Topic 7. The cost of air transportation.

Economic essence and value of production costs as one of the main indicators of efficiency of air transport enterprises. Structure and composition of operating costs, grouping of costs by economic elements and costing items. Methods for determining the cost of production. Factors and ways to reduce the cost of air transportation.

### Topic 8. Revenues and profits of air transport companies.

Revenues of airlines from main and non-core activities. Methods of calculation, sources of formation and ways to increase the income of airlines. Indicators of efficiency of airlines, balance sheet profit, estimated (net), overall profitability and estimated, cost-effectiveness. Factors influencing their level and ways to increase these indicators

## 2.3. Training schedule of the subject.

№	Theme (thematic section)	Total, hours			
		Total	Lectures	Labs	Self-study
1	2	3	4	5	6
<b>Module №1 «Main performance indicators of economic activity of air transport enterprises »</b>					
1.1	Fixed assets of aviation enterprises .	<b>1 semester</b>			
		<b>13</b>	2	2	9
1.2	Working capital of aviation enterprises .	<b>14</b>	2	2	10
1.3	Salaries of aviation transport staff .	<b>13</b>	2	2	9
1.4	Leasing of aircraft	<b>14</b>	2	2	10
1.5	Elasticity of demand for air transport	<b>13</b>	2	2	9
1.6	Features of pricing in air transport	<b>14</b> <b>13</b>	2 2	2 2	10 9
1.7	The cost of air transportation	<b>15</b>	2 1	2	10
1.8	Revenues and profits of air transport companies	<b>11</b>	-	1	10
1.9	Module Test №1	<b>13</b>	2	2	9
<b>Total by the module №1</b>		<b>120</b>	<b>17</b>	<b>17</b>	<b>86</b>
<b>Total by the subject</b>		<b>120</b>	<b>17</b>	<b>17</b>	<b>86</b>

### 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. Колосок В. М. Економіка транспортних підприємств: навч. посіб. / В. М. Колосок, Я. О. Ходова; за заг. ред. В. М. Колосок. – Маріуполь : ПДТУ, 2017. – 187 с.

3.2.2. Бутко М. Регіональна економіка в модернізаційному форматі: підручник. – Центр навчальної літератури, 2020. – 432 с.

##### Additional Literature

3.2.3. Словник економіста та підприємця / А.М. Туренко, І.А. Дмитрієв, О.С. Іванілов, І.Ю. Шевченко. – Х.: ХНАДУ, 2018. – 340 с.

3.2.4. Дмитрієв І.А. Транспортне підприємництво: навч. посіб. / І.А. Дмитрієв, Я.С. Левченко – Х.: ХНАДУ, 2018. - 308 с.

#### 3.3. Internet Information resource

3.3.1. <http://www.lib.nau.edu.ua/booksfor nau/2011/ProektAnaliz.pdf> .

3.3.2. [https://econom.univ.kiev.ua/wp-content/.../28proekt\\_analiz.doc](https://econom.univ.kiev.ua/wp-content/.../28proekt_analiz.doc).

3.3.3. <http://ep3.nuwm.edu.ua/2266/>


### 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
<b>1 semester</b>	
<b>Module №1 «Main performance indicators of economic activity of air transport enterprises »</b>	
Carrying out Labs (610g x 8)	89 (total)
For admission to complete module test №1, a student must receive not less than	48
Module test №1	20
<b>Total by the module №1</b>	<b>100</b>
<b>Total by the subject</b>	<b>100</b>

**The Graded Test Grade** is determined (in grades and on a national scale) based on the results of all kinds of academic activities during the semester.

	Quality Management System. Course Training Program «Transport Economy»	Document Code	QMS NAU CTP 19.01-01-2020
		page 8 of 9	

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 Total Semester Grade is listed in the national and ECTS scale scores.

4.5. 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.**

4.6. 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



(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				