

**National Aviation University**  
Faculty of Transport, Management and Logistics  
Air Transportation Management Department

AGREED

Dean of the Faculty  
of Transport, Management  
and Logistics

APPROVED

Vice- Rector for Academics

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«\_\_» \_\_\_\_\_ 2019

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«\_\_» \_\_\_\_\_ 2019



Quality Management System

**COURSE TRAINING PROGRAM**  
**on**  
**«Efficiency of Air Transportation»**

Field of study: 27 “Transport”  
Speciality: 275 “Air Transport Technologies”  
Specialization: 275.04 “Air Transport Technologies”  
Educational Professional Program: “Air Transportation Management”

Year of Study – 4 Semester – 7,8

Lectures – 29 Graded Test – 7 semester  
Laboratory Classes – 46 Examination – 8 semester  
Self-study – 120  
Total (hours/ECTS credits) – 195/6,5

Homework (1) – 7 semester  
Term Paper – 8 semester

Index ECB-6-275/16-3.1.27

**QMS NAU CTP 19.01-01-2019**



The Course Training Program on «Efficiency of Air Transportation» is based on the Educational and Professional Program and Bachelor Curriculum № ECB -6-275/16 for Speciality 275 «Air Transport Technologies», Specialization 275.04 «Air Transport Technologies», Educational Professional Program «Air Transportation Management» and Syllabus of this Subject, index № CB-6-275/16-3.1.27, approved by the Rector on «\_\_» \_\_\_\_\_ 2019, and correspondent normative documents order №207/од of 27.04.2018.

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"\_\_" \_\_\_\_\_ 2019

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## 1. INTRODUCTION

The Course Training Program of the subject developed on the basis of Syllabus on "Air Transportation Sales" and «Methodological guidelines for development and performance of the Training Program and the Course Training Program», entered into force by the order of 16.06.15 №37.

The Rating system of assessment (RSA) is an integral part of the Course Training Program and provides quality assessment for all kinds of class work and self-study, performed by the student and the level of obtained knowledge and skills by evaluating the results of this work in the points during current, modular and semester control, and the following transfer by multi-scale assessment to assess the national scale and scale ECTS.

RSA provides using of the module rating system (current, control, total), and examination or graded, total for semester and total ratings as well.

## 2. SUBJECT CONTENT

### 2.1. Plan of the subject

№	Theme	Total, hours			
		Total	Lectures	Labs.	Self-study
1	2	3	4	5	6
<b>7 semester</b>					
<b>Module №1 «Elements of Efficiency theory»</b>					
1.1	The subject, purpose and main objectives of the subject	11	2	2	5
1.2	The concept of efficiency in the organization of air transportation	11	2	2	5
1.3	Criteria for the effectiveness of air transportation	11	2	2	5
1.4	Economic efficiency.	11	2	2	5
1.5	Technical efficiency.	11	2	2	5
1.6	Efficiency management	11	2	2	5
1.7	Extra-system efficiency	10	2	2	4
1.8	Uncertainty factor and efficiency	8	2	2	4
1.9	A resource approach to ensuring air travel efficiency	7	1	2	4
1.10	Homework	8	-	-	8
1.11	Module test №1	6	-	2	4
<b>Total by the module № 1</b>		<b>91</b>	<b>17</b>	<b>34</b>	<b>54</b>
<b>Total by 7 semester</b>		<b>91</b>	<b>17</b>	<b>34</b>	<b>54</b>
<b>8 semester</b>					
<b>Module №2 «Methods of determine efficiency of air transportation»</b>					
2.1	Key performance indicators for airports activity	9	2	2	5
2.2	Indicators of labor efficiency in aviation industry.	9	2	2	5
2.3	Indicators of efficiency of use of production funds and financial resources.	9	2	2	5
2.4	Methods and models for determining the technical effectiveness of air transportation	8	2	-	6
2.5	Methods for determining the quality and operational efficiency of air transportation.	9	2	2	5
2.6	Methods for determining the economic efficiency of air transportation	9	2	2	5
2.7	Module test №2	7	-	2	5
<b>Total by the module № 2</b>		<b>60</b>	<b>12</b>	<b>12</b>	<b>36</b>
<b>Module №3 «Term Paper»</b>					
3.1	Carrying out and defense of the term paper	30	-	-	30
<b>Total by the module № 3</b>		<b>30</b>	<b>-</b>	<b>-</b>	<b>30</b>
<b>Total by 8 semester</b>		<b>90</b>	<b>12</b>	<b>12</b>	<b>66</b>
<b>Total by the Subject</b>		<b>195</b>	<b>29</b>	<b>46</b>	<b>120</b>



## 2.2. Homework

Homework shall be performed in the seventh semester, in accordance with approved methodological recommendations, in order to consolidate and deepen the theoretical knowledge and skills acquired by the student in the process of mastering the training material in the field of organization of the functioning processes and aviation efficiency management and is an important step in mastering the subject material taught in the seventh semester.

Homework is performed on the basis of educational material presented for independent study by students, and is a component of module # 1 "Elements of the efficiency theory".

The specific purpose of the Homework is to learn the basics of the formation of performance criteria and methods of evaluating performance under uncertainty.

Carrying out and defense of the homework shall be done by the student individually in accordance with methodical recommendations.

Time, necessary for carrying out of the homework, - is up to 8 hours of individual work.

## 2.3. Term Paper

Term Paper must be completed in 8<sup>th</sup> semester, in accordance with the methodological recommendations approved in the established order, in order to consolidate and deepen the theoretical knowledge and skills acquired by the student in the process of mastering all the educational material of the discipline. Execution of the Term Paper «Methods and models of assessment the efficiency of air transportation» is an important step in the preparation for the completion of the diploma project of a future specialist in the organization of transportation and management in transport. The coursework covers all stages of project preparation, including the construction and validation of methods and models for assessing the effectiveness of air traffic.

Carrying out and defense of the Term Paper is carried out by the student individually, according to the methodological recommendations.

Time, necessary for completion of the Term Paper – is up to 30 hours

## 3. Basic concepts of guidance on the Subject

### 3.1. LIST OF REFERENCES

#### Basic recommended sources

3.1.1. Костромина Е.В. Авиационный маркетинг - М.: НАУ ВКШ «Авиабизнес», 2003г. – 383с.

3.1.2. Экономика, организация и планирование гражданской авиации / Под ред. А.В. Мирошникова. – М.: Транспорт, 1983. – 240 с.

#### Additional recommended sources

3.1.3. Кулаев Ю.Ф. Экономическая оценка технических решений и инвестиционных проектов на воздушном транспорте: краткие методические рекомендации. – К.: КМУГА, 1996.

3.1.4. Ященко Л.А. Обоснование типового состава воздушных судов для авиалиний. – К.: КИИГА, 1985.

3.1.5. Ященко Л.А. Обоснование технологических схем комплексного транспортного обслуживания пассажиров и грузовой клиентуры. - К.: КИИГА, 1988. – 104 с.



### 3.2. List of basic guidance materials for the Subject

№ пор.	Title	Code of the training subject	Quantity
1.	Methodical instructions for labs	1.1-1.9 2.1-2.6	Electronic version
2.	Methodical instructions for homework	1.10	Electronic version
3.	Methodical instructions for term paper	3.1	Electronic version

### 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

7 semester		
Module №1		Max Grade
Kind of Academic Activities	Max Grade	
Carrying out and defending labs 1.1-1.9	54 (total)	
Carrying out and defending of homework	14	
<i>To pass the module test №1 student should have grade not less than 41 grades.</i>		
Carrying out Module Test №1	20	
<b>Total by the module №1</b>	<b>88</b>	
<b>Semester Graded Test</b>		
<b>Total by the 7 semester</b>		<b>100</b>
8 semester		
Module №2		Max Grade
Kind of Academic Activities	Max Grade	
Carrying out and defending labs 2.1-2.6	60 (total)	
Carrying out and defending the theoretical material	8 (total)	
<i>To pass the module test №2 student should have grade not less than 41 grades.</i>		
Carrying out Module Test №2	20	
<b>Total by the module №2</b>	<b>88</b>	
<b>Semester Examination</b>		
<b>Total by the 8 semester</b>		<b>100</b>
Module №3		Max Grade
Kind of Academic Activities		
Carrying out of the Term Paper		60
Defense of the Term Paper		40
<b>Carrying out and Defense of the Term Paper</b>		<b>100</b>



4.2. The completed curricular activity is accounted if the student received a positive mark (table 4.2).

4.3. The grades a student has been given for the different kinds of academic work are summed up and the result constituting a Current Module Grade is entered into the Module Grade Register.

Table 4.2

Correspondence between the Grades and the National Scale for different kinds of academic activities

Grades					National Scale
Carrying out and defending labs		Carrying out and defending the theoretical material	Carrying out and defending of homework	Carrying out Module Test	
Module Test №1	Module Test №2				
49-54	54-60	8	13-14	18-20	Excellent
41-48	45-53	6-7	11-12	15-17	Good
32-40	36-44	5	9-10	12-14	Satisfactory
Under 32	Under 36	Under 5	Under 9	Under 12	Bad

4.4. The Current Module Grade and the Module Test Grade together make up a Total Module Grade whose correspondence to the National Scale is shown in Table 4.3.

Table 4.3

Correspondence between the Total Module Grades and the National Scale

Module 1,2	National Scale
79-88	Excellent
66-78	Good
53-65	Satisfactory
Under 53	Bad

4.5. The total modular rating obtained by the student on the results of the completion and defense of the term paper, according to the national scale and the ECTS scale is recorded in the module control records.

4.6. The Semester Module Grade is calculated as the sum of the Total Module Grades. The correspondence between Semester Module Grade values and the National Scale is given in Table 4.4.



Table 4.4

Correspondence between the Semester Module Grades and the National Scale

Grades	National Scale
79-88	Excellent
66-78	Good
53-65	Satisfactory
under 53	Bad

Table 4.5

Correspondence between the Examination/Graded Test Grades and the National Scale

Grades		National Scale
Залікова	Екзамен.	
12	11-12	Excellent
10	9-10	Good
8	7-8	Satisfactory
-	under 7	Bad

4.7. The Semester Module Grade and the Examination Grade together make up a Total Semester Grade whose correspondence to the National Scale and the ECTS Scale is shown in Table 4.6.

Table 4.6

Correspondence of the Total Semester Grades to the National Scale and the ECTS System

Grades	National Scale	ECTS Grade	
		ECTS Grade	Explanation
<b>90-100</b>	<b>Excellent</b>	<b>A</b>	<b>Excellent</b> (excellent performance with insignificant shortcomings)
<b>82-89</b>	<b>Good</b>	<b>B</b>	<b>Very Good</b> (performance above the average standard with few mistakes)
<b>75-81</b>		<b>C</b>	<b>Good</b> good performance altogether with a certain number of significant mistakes)
<b>67-74</b>	<b>Satisfactory</b>	<b>D</b>	<b>Satisfactory</b> (performance meets the average standards)
<b>60-66</b>		<b>E</b>	<b>Sufficient</b> (performance meets the minimal criteria)
<b>35-59</b>	<b>Bad</b>	<b>FX</b>	<b>Bad</b> (bad performance; a second testing is required)
<b>1-34</b>		<b>F</b>	<b>Bad</b> (very bad performance; a student shall retake the course)

4.8. The Total Semester Grade is entered into the Examination Register and into a student's record book in values, National Scale grades, and ECTS Scale grades.

4.9. 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.

4.10. The Total module grade, as the result of completion and defending of the Term Paper is entered into a student's record book and to the Diploma Annex for example: **92/Ex/A, 87/Good/B, 79/Good/C, 68/Sat/D, 65/Sat/E**, etc.

4.11. The Total Grade for the subject is equal to the average grade from Total Semester Grades (from this subject for fifth and sixth semesters) with its further transformation in national scale and ECTS system.

This Total Grade is entered into an Appendix to the Diploma.





(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	

(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	Дата внесення зміни	Дата введення зміни
	Зміненого	Заміненого	Нового	Анульованого			

(Ф 03.02 – 32)

### УЗГОДЖЕННЯ ЗМІН

	Підпис	Ініціали, прізвище	Посада	Дата
Розробник				
Узгоджено				
Узгоджено				