

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

APPROVED

Vice-Rector for Academics

_____ A. Gudmanian

«__» _____ 2019



Quality Management System

COURSE TRAINING PROGRAM

on

“Basics of Transport Enterprises Activity”

Field of study: 27 “Transport”

Specialty: 275 “ Air Transport Technologies”

Major: 275.04 “Air Transport Technologies”

Educational Professional Program: “Air Transportation Management”

“Multimodal Transport and Logistics”

Year of Study– 2 Semester – 3rd

Lectures - 34

Graded Test – 3rd semester

Practicals- 34

Self-study - 52

Total (hours/ ECTScredits) - 120/4.0

Calculation and Graphic Paper (1) - 3rd semester

Index: ECB-7-275/17-2.2.4

QMS NAU CTP 19.01-01-2019



The Course Training Program on “Basics of Transport Enterprises Activity” is based on the Educational Professional Program and Bachelor Extended Curriculum ECB-7-275/17 for Speciality 275 «Air Transport Technologies», Specialization 275.04 «Air Transport Technologies», Educational Professional Programs «Air Transportation Management» and Multimodal Transport and Logistics”, Ukrainian version of this Course Training Program on “Fundamentals of Transport Enterprise Activity”, index РБ-7-275/17-2.2.4, approved by the Vice Rector for Academics on 25.02.2019, corresponding normative documents and orders №207/ОД of 27.04.2018 and 210/ОД of 27.04.2018.

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INTRODUCTION

The Course Training Program on the “Basics of Transport Enterprise Activity” was worked out within the Syllabus Design Guidelines approved by Rector’s order No 106 dtd. July 13, 2017 and relative regulatory documents.

1. EXPLANATORY NOTE.

1.1. The planned results.

The place of this subject in the system of professional training of a specialist.

This training course is the theoretical basis and practical body of knowledge and skills that form the air transport profile of a specialist in the field of knowledge and systematization of knowledge about the functioning of transport systems.

The purpose of the course is to develop students’ knowledge and skills in organizational and economic activity of transport enterprises.

The objectives of the subject are:

- Air transportation system structure and its elements research;
- studying of the air transportation regulation methods;
- studying of the bilateral and multilateral agreements peculiarities of the air transportations;

As a result of mastering the subject "Air Transport Management" students must be formed the following **competencies**:

- ability to use professionally-specialized knowledge and practical skills of the theory of the transport process; technology, organization and management of mixed traffic for the solution of engineering tasks in production;
- ability to analyze techno-economic, technological, legal, social and environmental components of the organization of air transportation in terms of knowledge of fundamental disciplines, as well as on the basis of appropriate economic and mathematical methods;
- the ability to identify, define, formulate, choose and apply appropriate analytical methods and modeling techniques to solve engineering problems in the field of transport and logistics.

Interdisciplinary links of the subject

The subject “**Basics of Transport Enterprise Activity**” is based on knowledge of such subjects as “Introduction to Speciality”, “Higher Mathematics” and is the basis for the studying such disciplines as “Air Cargo Transportation”, “Air Passenger Transportation”.

1.2. Program of the subject.

Course of the subject is structured modularly and consists of two training modules, namely:

Module 1. Resourcing and Key Performance Indicators of Transport Enterprises.

Topic 1. Transport Enterprise Operating Conditions and Development Trends. Scopes of their Performance.

Transport market economy. Ukraine’s current transport market. Carriage by various transport modes. Types of transportations.

Topic 2. Capital assets of transport enterprises.

Capital assets structure, depreciation and amortization. Capital gains: yield, capital-output ratio, capital-labour ratio and return on assets. Factors and tools for capital assets optimization.

Тема 3. Operating assets of transport enterprises.

Economic essence and structure of operating costs. Negotiable operating assets and their calculation. Operating assets efficiency. Cost-effectiveness as production efficiency means.

Topic 4. Transport personnel remuneration.

Remuneration as crucial labour driver. Factors affecting employee compensation. Pay&salary structure.

Topic 5. Aircraft leasing.

Profiles of leading leasing companies. Typical conditions of lease agreement. Economic feasibility of transport enterprise leasing. Lease payment calculations. Cash flow calculation under lease agreement.

Module 2. Production and economic activities of transport enterprise.

Topic 1. Traffic handling cost for various transport modes.

Product prime-cost as key indicator of transport enterprise activity. Product prime-cost calculation. Factors affecting transportation cost reduction.

Topic 2. Transport pricing.



Theoretical approach to pricing. Pricing strategy in air transport. Transport rate quotes.

Topic 3. Transport enterprise income and revenue.

Transport enterprise core and non-core business revenue. Enterprise revenue growth calculation.

Topic 4. Indicators of transport enterprise performance and their economic analysis.

Transport cost-effectiveness and comparative advantage. Cost-effectiveness of newly-established transport enterprise. Liquidity and solvency analysis. Air transport cash flow analysis and management.

2. SUBJECT CONTENT

2.1 Plan of the subject

Table 2.1

SI/N	Theme	Academic hours			
		Total	Lectures	Practicals	Self-study
1	2	3	4	5	6
3 semester					
Module 1. Resourcing and Key Performance Indicators of Transport Enterprises					
1.1	Transport Enterprise Operating Conditions and Development Trends. Scopes of their Performance.	12	4	4	4
1.2	Capital assets of transport enterprises.	12	4	4	4
1.3	Operating assets of transport enterprises.	12	4	4	4
1.4	Transport personnel remuneration.	10	4	2	4
1.5	Aircraft leasing.	7	2	2	3
1.6	Module test No 1	5	-	2	3
Total in module No 1		58	18	18	22
Module No 2 Production and Economic Activities of Transport Enterprise					
2.1	Traffic handling cost for various transport modes.	12	4	4	4
2.2	Transport pricing	12	4	4	4
2.3	Transport enterprise income and revenue	12	4	4	4
2.4	Indicators of transport enterprise performance and their economic analysis.	10	4	2	4
2.5	Graphing calculator project	10	-	-	10
2.6	Module test No 2	6	-	2	4
Total in module No2		62	16	16	30
Total in 3rd semester		120	34	34	52
Course totals		120	34	34	52

2.2. Lectures, their subject matter and scope

SI/N	Theme	Academic hours	
		Lectures	Self-study
3 семестр			
Module 1. Resourcing and Key Performance Indicators of Transport Enterprises			
1.1	Transport market economy	2	1
1.2	Ukraine's current transport market.	2	1
1.3	Capital assets structure, depreciation and amortization	2	1
1.4	Capital gains: yield, capital-output ratio, capital-labour ratio and return on assets. Factors and tools for capital assets optimization.	2	1
1.5	Economic essence and structure of operating costs. Negotiable operating assets and their calculation	2	1
1.6	Negotiable instruments acceleration. Operating assets efficiency. Cost-effectiveness as production efficiency means.	2	1
1.7	Remuneration as crucial labour driver	2	1
1.8	Factors affecting employee compensation. Pay&salary structure.	2	2
1.9	Profiles of leading leasing companies. Typical conditions of lease agreement. Economic feasibility of transport enterprise leasing.	2	1



Total by the module No 1		18	10
Module 2 Production and economic activities of transport enterprise.			
2.1	Product prime-cost as key indicator of transport enterprise activity.	2	1
2.2	Product prime-cost calculation. Factors affecting transportation cost reduction.	2	1
2.3	Theoretical approach to pricing.	2	1
2.4	Pricing strategy in air transport. Transport rate quotes.	2	1
2.5	Transport enterprise core and non-core business revenue.	2	1
2.6	Enterprise revenue growth calculation.	2	1
2.7	Transport cost-effectiveness and comparative advantage. Cost-effectiveness of newly-established transport enterprise.	2	1
2.8	Liquidity and solvency analysis. Air transport cash flow analysis and management.	2	1
Total by the module No 2		16	8
Course totals		34	18

2.3. Practical classes, their subjects and the scope


Sl/N	Theme	Academic hours	
		Practicals	Self-study
3rd semester			
Module 1. Resourcing and Key Performance Indicators of Transport Enterprises			
1.1	Transport Enterprise Operating Conditions and Development Trends.	2	1
1.2	Calculation of air transportation performance	2	1
1.3	Capital assets structure, types of depreciation and amortization.	2	1
1.4	Calculation of capital gains: yield, capital-output ratio, capital-labour ratio and return on assets.	2	1
1.5	Enterprise negotiable instruments	2	1
1.6	Negotiable instruments acceleration. Calculation of negotiable instruments cost-efficiency.	2	1
1.7	Remuneration as crucial labour driver. Remuneration system.	2	1
1.8	Lease payment calculation. Calculation of transport enterprise lease contract value.	2	2
1.9	Module test No 1	2	3
Total by the module No 1		18	12
Module No 2 Production and economic activities of transport enterprise			
2.1	Product prime-cost as key indicator of transport enterprise activity.	2	1
2.2	Product prime-cost calculation. Factors affecting transportation cost reduction.	2	1
2.3	Pricing strategy in air transport.	2	1
2.4	Transport rate quotes.	2	1
2.5	Transport enterprise core and non-core business revenue calculation.	2	1
2.6	Revenue growth calculation.	2	1
2.7	Transport cost-effectiveness and comparative advantage. Cost-effectiveness of newly-established transport enterprise	2	2
2.8	Module test No 2	2	4
Total in module No 2		16	12
Course totals		34	24

2.4. Self-study student work, its content and scope

Sl/N	Scope	Self-study hours
3rd semester		
1.	Working out the lecture material	18
2.	Preparation for practical classes	17
3.	Preparation for module tests Nos.1 and 2	7
4.	Calculation graphic paper	10
Course totals		52

2.4.1. Calculation and Graphic Paper

The students carry out calculation graph project in the third semester in accordance with the approved methodological recommendations to improve and deepen their theoretical knowledge and skills.

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The calculation graph project “Estimation of air carriers’ transport expenses” is based on the students’ self-study educational material of module No 2 “Production and economic activity of transport enterprises”.

The students calculate carriers’ traffic handling costs and flight expenses on air transportation under the laws of Ukraine.

The students prepare and personally defend the project according to the methodological guide having calculated the cost of transport products, particularly, flight hour cost, flight crew and maintenance personnel labour cost, the cost of aviation fuel and lubricants, depreciation, code sharing flights, flight design, etc.

The project performance takes 10 hours.

3. Educational and Methodological Materials on Discipline

3.1. Methods of teaching

The Course Training Program on the “Basics of Transport Enterprise Activity” provides for applying such teaching methods as problem-solving and visualization lectures, brainstorming, discussions, presentations, role plays etc.

3.2. Recommended Literature

Basic

3.2.1. Костромина Е.В. Экономика авиакомпании в условиях рынка. 4-е изд. стереотип.-МЛ: НОУВКІШ «Авіабізнес», 2002.-303с.

3.2.2. Кулаев Ю.Ф. Экономика гражданской авиации Украины. Монография. - К. Издательство «Феникс», 2004 - 667 с.

3.2.3. Полянская Н.Е. Организация коммерческой работы на воздушном транспорте: Монография. - К.: НАУ, 2004, - 320 с.

3.2.4. Економіка підприємства / за ред. С.Ф. Покропивного.-К.: КНЕУ, 2001.- 456с.

3.2.5. Бойчик І.М., Хорів П.С., Хопчан М.І. Економіка підприємств: Посібник - Львів: Сполош, 2000 - 211с.

3.2.6. Т.О. Примак. Економіка підприємств. Навчальний посібник. - К.: НАУГІ, 1999. - 108с.

3.2.7. Економіка транспорту / за ред. В.Г. Коби. Інавчальний посібник. К.: Курс, 1999. - 254с.

Additional

3.2.8. А. Кейлер Экономика предприятия: Курс лекций - М.: РИНФРА - 2000 - 132с.

3.2.9. Бляхмай Л.С. Экономика фирмы: Учебное пособие.-СПб: Из-во Михайлова, 2000, 279с.

3.2.10. Господарський кодекс України: Прийнятий 16 січня 2003 р.- К.: Істина, 2003.-208 с.

3.2.11. Бойчик І.М. Економіка підприємства. Навчальний посібник.- К.: Атіка, 2002.- 480 с.

3.2.12. Cole, Stuart. Applied transport economics: policy, management and decision making /Stuart Cole.- 3rd ed. – London.: Kogan Page Limited, 2005. – 465 p.

3.2.13. Cowie, Jonathan. The economics of transport: a theoretical and applied perspective/Jonathan Cowie; with contributions from Steve Ison, Tom Rye and Geoff Riddington. – New York.: Routledge, 2010. – 375 p.

3.2.14. Spurling, David J. Introduction to transport economics: demand, cost, pricing, and adoption/David J. Spurling. – Florida.: Universal-Publishers, 2010. – 445 p.


3.2.15. Peter Belobaba, Amedeo Odoni and Cynthia Barnhart. The Global Airline Industry – United Kingdom.: John Wiley & Sons, Ltd., 2009. – 509 p.

3.3. Internet Information Resources

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.

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

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4. Rating system of assessing students' knowledge and skills acquired

4.1. Control methods and points accounting scheme

The evaluation of individual types of academic work done by a student is carried out in grades according to the table. 4.1.

Table 4.1

3 semester					
Module №1		Module 2		Max points	
Type of academic work	Max points	Type of academic work	Max points		
Practical tasks №1.1-1.8	24 (total)	Practical tasks №2.1-2.7	21 (total)		
Theoretical tasks	10 (total)	Calculation graph project	13 (total)		
<i>For admission to perform module test No 1 a student has to score at least 21</i>		<i>For admission to perform module test No 2 a student has to score at least 21</i>			
Module test №1	10	Module test No 2	10		
Total by the module No 1	44	Total by the module No 2	44		
Semester Graded Test				12	
Total by the 3rd semester				100	

4.2. The completed types of classes are credited to the student if he received a positive rating for them (table 4.2).

Table 4.2

Correspondence of rating grades for certain types of classes in points is estimated on a national scale

Rating grades					National scale
Tasks during practical classes		Theoretical task	Calculation graph project	Module test	
No 1.1-1.8	No 2.1-2.7				
22-24	19-21	9-10	12-13	9-10	Excellent
18-21	16-18	8	10-11	8	Good
15-17	13-15	6-7	8-9	6-7	Satisfactory
under 15	under 13	under 8	under 8	under 6	Bad

4.3. The sum of rating grades received by the student for certain types of completed educational work is the current modular rating, which is entered into the details of the module control report.

4.4. The sum of the current and control modular rating grades is the final modular rating (tab.4.3), which, in points and national scale, is recorded in the module control report.

Table 4.3

Compliance summary modular rating
in points estimations by the national scale

Module test No 1	Module test No 2	Score in National scale
40-44	40-44	Excellent
33-39	33-39	Good
27-32	27-32	Satisfactory
under 27	under 27	Bad

4.5. The sum of the final modular rating marks in the marks is the final semester modular rating, which is converted into an assessment on a national scale (Table 4.4).(in case of 1 module this table is equal to table. 4.3).

Table 4.4
Correspondence of the final semester modular rating estimation in scores on the national

Score in points	Score national scale
79 - 88	Excellent
66 - 78	Good
53 - 65	Satisfactory
under 53	Bad

Table 4.5
Correspondence of the graded /exam rating in the points of assessment on the national scale

Score in points	Score national scale
12	Excellent
10	Good
8	Satisfactory
-	-

4.6. The sum of the final semester modular and grading/examination rating in points is the final semester rating, which is converted into national scale and scale ECTS (Table 4.6).

Table 4.6
Correspondence of the final semester rating in scores on the national scale and scale ECTS

Score in points	Score national scale	Score scale ECTS	
		Score	Explanation
90-100	Excellent	A	Excellent (outstanding performance with only minor mistakes)
82-89	Good	B	Very good (above average with a few bugs)
75-81		C	Good (in general the right of execution of a certain number of significant errors)
67-74	Satisfactory	D	Satisfactory (not bad, but with a significant number of deficiencies)
60-66		E	Enough (performance meets the minimum criteria)
35-59	Bad	FX	Bad (with the possibility of re-Assembly)
1-34		F	Bad (with optional second rate)

4.7. The final semester rating in points, on the national scale and the ECTS scale is entered into the examination report, the curriculum and the student's record book.

4.8. The final semester rating score is entered into the student's record book and curriculum, for example: 92 / Excellent. / A, 87 / Good / B, 79 / Good / C, 68 / Satisfactory/ D, 65/ Enough/E, 40/ Bad/FX, etc.

4.9. The final rating score from the discipline is defined as the arithmetic mean score from the final semester rating scores in points (from this discipline - for the fourth and fifth semesters), followed by its translation into national scale and ECTS scales.

The indicated summary rating from the discipline is entered in the 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	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 зміни	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				