

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL AVIATION UNIVERSITY
FACULTY OF TRANSPORT, MANAGEMENT AND LOGISTICS
LOGISTICS DEPARTMENT**

**METHODICAL RECOMMENDATIONS
FOR HOMEWORK COMPLETION**

on the subject « AVIATION MANAGEMENT »

Educational degree: «Bachelor»
Educational Professional Program: “Aviation Logistics”
Field of study: 07 “Management and Administration”
Specialty: 073 “Management”

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Discussed and approved by the Logistics Department

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INTRODUCTION

Homework (HW) “Organization of business processes in airline and airport activity” on the subject is carried out in the eighth semester, in accordance with the methodological recommendations approved in the established order, with the aim of consolidating and deepening the theoretical and practical knowledge and skills acquired in the process of assimilating the educational material of the subject in relation to market requirements for the system of general and professional competencies of managers, which will be mastered in the future when studying the following subjects of professional training of a specialist with a basic and full higher education.

As a result of the study of the subject, the student must achieve the following program learning outcomes (hereinafter referred to as PLO) in combination with other educational components:

PLO 18. Determine the parameters of management of material and related flows, comply with environmental requirements and safety rules of goods movement in the aviation industry.

PLO 21. Demonstrate skills in optimizing the organizational and technological aspects of managing material and related flows in operational logistics activities in aviation supply chains (transportation operations, cargo processing, storage, sorting, marking, consolidation, customs clearance, information support, etc.) taking into account rules, practices and procedures to protect civil aviation from acts of illegal interference, taking into account aspects of safety, regularity and efficiency of flights.

As a result of studying the subject the student must acquire the following integral competencies (hereinafter referred to as the IC), general competencies (hereinafter referred to as the GC), professional competencies (hereinafter referred to as the PC) in combination with other educational components:

IC 1. The ability to solve complex specialized tasks and practical problems, which are characterized by complexity and uncertainty of conditions, in the field of

management and logistics or in the learning process, which involves the application of theories and methods of social and behavioral sciences;

IC 2. Operational and tactical management of logistics business processes of aviation companies, organization of complex logistics service for consumers of aviation industry products, organization of operational logistics activities in the field of civil aviation;

GC 20. The ability to assess the conditions and consequences of organizational and management decisions, the ability to justify management decisions and the ability to ensure their legitimacy from the standpoint of social responsibility.

PC 16. The ability to set and solve tasks for the management of aviation material and related flows in logistics systems at the micro and macro levels.

The tasks of the Homework are the acquisition of knowledge on the aviation management of the airline and the airport, namely on the organization of:

- strategic planning of airline and airport operations in the civil aviation system;
- tactical planning of airline and airport operations;
- operational planning of airline and airport operations;
- interaction of the airline and the airport with other participants of the aviation chain.

METHODOLOGICAL RECOMMENDATIONS

For analysis, select the airline and airport according to Table 1.

Table 1 – Individual points of homework

No.	Airline	Airport
1	Air Canada	Denver International
2	China Southern Airlines	Shanghai Pudong International
3	Turkish Airlines	George Bush Intercontinental
4	Southwest Airlines	Beijing Daxing International
5	Delta Air	Washington Dulles International
6	Lufthansa	Orlando International
7	Ryan Air	Dallas/Fort Worth International
8	American Airlines	King Fahd International

During the analysis of the airline's activity, it is necessary to:

- determine the organizational structure of the airline, its advantages and disadvantages;
- determine the airline model (legacy / low-cost), its advantages and disadvantages; determine their ownership (state-owned carrier / private carrier / joint venture carrier / community carrier).
- determine the route network of the airline;
- determine the advantages and disadvantages of the airline in comparison with the closest competitors in their market;
- determine the airline's partners in the organization of the aviation chain of passenger/cargo delivery, determine which alliances the airline is a part of;
- analyze the airline's transportation statistics for 3-5 years: the number of transported passengers / cargo, compare the number of available and performed passenger-km / ton-km / seat-km, revenue passenger-kilometers, revenue tonne-

kilometer, volumes of transportation by region (for the last year), aircraft occupancy by route and in general, etc.;

- schematically build and describe the chain of organization of passenger/cargo air transportation along the selected route.

During the analysis of the airport activity, it is necessary to:

- determine the organizational structure of the airport, its advantages and disadvantages;

- determine the airport model (point-to-point / hub and spoke system / airport city / smart airport), its advantages and disadvantages; determine their ownership (state-owned / private / joint venture / community).

- to analyze the operation of the airport in the field of the use of green technologies;

- determine the advantages and disadvantages of the airport in comparison with the nearest competitors in its market;

- identify airport partners in the organization of the aviation chain of passenger/cargo delivery;

- analyze volume statistics for 3-5 years: the number of sent / received passengers / cargo, Number of flights, Delays, On-Time Performance, Security Checkpoint Wait Time, Turnaround Time, Lost Baggage Data, etc.

- schematically construct and describe passenger/cargo service chains at the airport for domestic and international flights.

HOMEWORK STRUCTURE

Homework should have the following structure:

INTRODUCTION (1-2 pages)

CHAPTER 1. ANALYSIS OF THE AIRLINE MANAGEMENT ORGANIZATION.

1.1 General analysis of the airline's activities (3-5 pages)

1.2. Analysis of the production indicators of the airline (3-5 pages)

1.3. Analysis of the aviation chain of passenger / cargo delivery (3-5 pages)

Conclusions to chapter 1 (0.5-1 p.)

CHAPTER 2. ANALYSIS OF AIRPORT MANAGEMENT ORGANIZATION

2.1 General analysis of airport operations (3-5 pages)

2.2. Analysis of airport production indicators (3-5 pages)

2.3. Analysis of the passenger service chain at the airport for domestic and international flights (3-5 pages)

2.4. Airport cargo service chain analysis for domestic and international flights (3-5 pages)

Conclusions to chapter 2 (0.5-1 p.)

CONCLUSIONS (2-3 pages)

The total volume of homework should be from 20 pages.

SYSTEM OF KNOWLEDGE AND SKILLS ASSESSMENT

National Scale	Grades in points
Excellent	11-12
Good	9-10
Satisfactory	7-8