SYLLABUS OF THE SUBJECT «RELIABILITY AND EFFICIENCY MANAGEMENT OF TRANSPORT

SYSTEMS AND TECHNOLOGIES»

MINO HAJAH
THIN MCMXXXIII

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

Higher	The second level (master)
Education	
Degree	
Subject status	Academic subject of selective subjects cycle
Course of study	1
Semester	2
Subject volume,	4,0/120
ECTS credits /	
total amount of	
hours	
Language	Ukrainian, English
To be studied	This subject is an integral part of the theoretical basis of knowledge and skills for
(study subject)	the study of technological disciplines for training in the field of transportation and
(transport systems.
Why is it	The purpose of studying the subject is to form a system of scientific knowledge and
interesting and	practical skills of specialists in transport technology in the field of efficient
must be	operation of transport systems and technologies and the provision of air transport.
learned?	
(purpose)	
What is studied?	- Search for the necessary information in the scientific and technical literature,
(learning	databases, other sources, analyze and objectively evaluate information in the field
results)	of transport systems and technologies and related cross-sectoral issues;
	- Freely discuss in state and foreign languages issues of professional activity,
	projects and research in the field of transport systems and technologies orally and
	In writing; Make affective decisions in the field of transport systems and technologies, taking
	- 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 necessary resources and constraints analyze risks
	- Develop new and improve existing transport systems and technologies, define
	development objectives, existing constraints, efficiency criteria and scope;
	- Manage complex technological and production processes of transport systems and
	technologies, including unpredictable and those that require new strategic
	approaches;
	- Use specialized software for analysis, development and improvement of transport
	systems and technologies;
	Investigate theoretical and experimental models for assessing the reliability and
	efficiency of transport technologies by mode of transport.
How is it	- Ability to motivate people and move towards a common goal;
possible to use	- Additional process and analyze information from various sources;
the gained	- Admity to develop and manage projects; Ability to generate new ideas (greativity):
knowledge and	- Ability to study and manage the operation of transport systems and technologies:
skills?	- Ability to identify and apply promising areas of modeling of transport processes.
(competencies)	- Ability to manage freight transport by mode of transport processes,

	- Ability to manage passenger traffic by mode of transport;
	- Ability to use specialized software to solve complex problems in the field of
	transport systems and technologies;
	- Ability to apply methods of modeling and optimization to study and improve the
	efficiency of aviation transport systems and their management processes.
Academic	Course content: Module № 1 "Management of reliability and efficiency of
logistics	transport systems and technologies'
	Topic 1. The purpose and objectives of the discipline.
	Topic 2. The concept of efficiency and reliability of transport systems in the
	organization of air transportation.
	Topic 3. Methods of studying the laws of operation of air transport systems
	Topic 4 Description of the air transport system.
	Topic 5. Analysis of the air transport system of Ukraine.
	Topic 6. Modeling the operation of air transport systems.
	Topic 7. Modeling the operation of airlines and their subsystems.
	Topic 8. Methods for determining the economic efficiency of air transport
	systems.
	Teaching methods : explanatory-illustrative method; problem statement
	method; interactive methods; research method
	Forms of study: full-time
Prerequisites	The subject is based on knowledge of such subjects as: "Methodology of applied
1	research in the field of transport technologies (by type)", "Project management in
	the transport industry", "Management in integrated transport systems"
Post-requisites	The subject is the basis for the study of such subjects as: "Forwarding Activity",
	"Air Transport Engineering", "Mathematical methods of modeling and optimization
	of transport systems and processes", "Course project" Project Management in the
	transport industry ""
Information	1. Акімова Т.А. Методика визначення конкурентоспроможності аеропорту. /
support from	Т.А. Акімова // Вісник Хмельницького національного університету 2018
the fund and	№15. – C. 234-238
repository of	2. Транспорт і зв'язок України – 2018. Статистичний збірник [Текс]/ за ред.
NAL librory	Н.С. Власенко. – К.: ТОВ «Август Трейд» - 272с.
NAU IIDI'al y	3 Козлюк I.O. Моделювання процесів функціонування авіаційного транспорту
	з метою прогнозування показників його діяльності. / І.О. Козлюк // Наукоємні
	технології. 2017 №8 (20). С. 100-105.
	4. Марінцева К.В. Наукові основи та методи ефективного функціонування
	авіатранспортних систем: монографія/ К.В. Марінцева. – К.: НАУ, 2014. –
	504c.
	5. Steven Show. Airline Marketing and Management. British Library Cataloguing
	in Publication Data Shaw, Stephen, 2017 Airline marketing and management
	6th ed. 1. Airlines - Management 2. Airlines - Marketing I. Title/ by Stephen Shaw.
	Ashgate Publishing Company. – P. 336.
	6. <u>www.avia.gov.ua</u>
	7. <u>https://mtu.gov.ua/timeline/Aviatransport.html</u>
	8. <u>https://ips.ligazakon.net/document/TM028161</u>
	9. <u>https://visnyk-geo.knu.ua/wp-content/uploads/2016/04/13-63.pdf</u>
Location and	Classroom of theoretical training, laptop, mobile device (phone, tablet) with
logistics	Internet connection for: communication and surveys; homework; performing
	tasks of independent work; testing (current, boundary, final control)
Semester	Graded Test, Testing
control,	
examination	
techniques	
Department	Air Transportation Management Department
Faculty	Faculty of Transport, Management and Logistics
e/	

Lecturer(s)	AKMALDINOVA VICTORIA YEVHENIVNA
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	Academic Status: -
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Originality of	Author's course, teaching in English
the subject	
Link to the	https://er.nau.edu.ua/handle/NAU/34200
subject	