	SYLLABUS OF THE SUBJECT		
UIOHA764	«Air Transportation Engineering»		
AND	Educational and Professional Program: «Air Transportation		
THE STATE	Management»		
B MCMXXXIII	Field of study: 27 «Transport»		
HANNY YHIBER	Speciality: 275 «Air Transport Technologies»		
	Specialization: 275.04 «Air Transport Technologies»		
Higher Education	Second (Master)		
Degree			
Subject status	Academic subject of the mandatory component of the study program		
Course of study	1		
Semester	2		
Subject volume,	4.0/120		
ECTS credits / total			
amount of hours			
Language	Ukrainian, English		
To be studied	The subject is theoretical basis of knowledge and skills for mastering		
(study subject)	technological subjects of specialists training in the field of transportation		
	management and transport systems.		
Why is it	The purpose of teaching this subject is to form a system of scientific		
interesting and	knowledge and practical skills of specialists in transport technology in the field		
must be learned?	of air transportation engineering.		
(purpose)			
What is studied?	- to develop technologies of cargo and passenger transportation by different		
(learning results)	types of transport on the basis of researches and relevant data;		
	- to investigate theoretical and experimental models for assessing the reliability and afficiency of transport technologies by the mode of		
	transport;		
	- to apply problem-oriented methods of analysis, synthesis and optimization		
	complexes;		
	– to present the results of research activities, to prepare scientific		
	publications, to participate in scientific discussions at scientific		
	conferences, symposia as well as carry out pedagogical activities in		
	educational institutions.		
How is it possible to	- ability to search, process and analyze information from various sources;		
use the gained	<ul> <li>ability to develop and manage projects;</li> </ul>		
knowledge and	<ul> <li>ability to conduct research at the appropriate level;</li> </ul>		
skills?	- ability to conduct research within a narrow specialization, identify		
(competencies)	problems, set goals and solve them using appropriate research methods;		
	- ability to investigate and manage the operation of transport systems and		
	technologies;		
	– ability to determination and application of perspective areas of transport		
	processes modeling;		
	<ul> <li>ability to manage traffic flows;</li> </ul>		
	- ability to use knowledge of the regulations, determining functioning of the		
	air transport industry, laws and principles of complicated systems		
	operation in combination with necessary mathematical tools to describe the		
	tunctioning and development of air transport technologies.		

Academic logistics	<i>Subject program:</i> Module No1 «Basic requirements to aircraft ground handling		
	and management of material and technical provision of air transportation»		
	Topic 1. Basic requirements to air transportation ground handling management.		
	Topic 2. Aircraft ground handling procedures.		
	Topic 3. Peculiarities of aircraft maintenance and repair system designing.		
	Topic 4. Fundamentals of aircraft maintenance and repair system designing.		
	Topic 5. Management of air transportation logistical support processes. Topic 6. Logistical support of the processes of aircraft provision with spare parts. Modern technologies of integrated logistics support in civil aviation. Topic 7. Usage of CALS technologies during Ground Support Equipment		
	operation. Organizational and economic problems of CALS-technologies		
	implementation in the aircraft construction complex of Ukraine.		
	Тема 8. Provision of ecological safety in civil aviation. Human factor in civil		
	aviation.		
	Kinds of sessions: lectures, laboratory classes		
	<u>Teaching methods</u> : explanatory-illustrative method; problem statement method; reproductive method; research method		
	Modes of study: full-time		
Prerequisites	The subject is based on the following subjects "Project Management in		
	Transport Field", "Management in Integrated Transport Systems"		
Post-requisites	The subject is base for studying the following subjects: "Major-related		
	Training", "Unified State Qualification Exam", "Qualification work".		
Information	1. IATA Airport Handling Manual, current edition. – Montreal–Geneva.		
support from the	2. Експлуатація авіаційної техніки. Дмитрієв С.О., Тугарінов О.С.,		
fund and repository	Докучаєв В.Г., Молодцов М.Ф. Навчальний посібник. Вид-во Нац. авіац.		
of NAU library	ун-ту «НАУ-друк», 2017. – 221 с.		
	3. Людський фактор в системі збереження льотної придатності авіаційної		
	техніки: навч. посіб. / Бурлаков В.І., Пучков Ю.П., Попов О.В.,		
	Попов Д.В. – К. : НАУ, 2014. – 118 с		
	4. Григорак М.Ю., Марчук В.С., Косарєв О.Й., Калініченко В.І., Ремига		
	Ю.С. Логістичний інжиніринг. Навчальний посібник. [Текст]/		
	М.Ю. Григорак, В.Є. Марчук та ін. – К.: НАУ, 2015. – 325 с.		
	5. Taylor G.D. Logistics Engineering Handbook [Електронний ресурс]		
	www.gbv.de/dms/ilmenau/toc/534350054.PDF.		
	<ul> <li>6. Аксьонов І. М., Габа В. В., Шерепа К.М. Транспортна логістика: навчальний посібник – Київ: ДЕТУТ, 2015.</li> <li>7. Марінцева. К. В. Наукові основи та методи забезпечення ефективного</li> </ul>		
	функціонування авіатранспортних систем [текст]: монографія/		
	Марінцева К. Б. – Київ. $\Pi A y$ , 2017. – 303 С.		
	Internet resources:		
	hwbingham/tables/calsthbs.htm		
	2 http://cals_ru/sites/default/files/downloads/national/anl_to_s30001_intro_ppt		
	3. https://www.jata.org/publications/Documents/ahm37_toc_20161125.pdf		
Location and	Classroom of theoretical training lanton mobile device (phone tablet) with		
logistics	Internet connection for communication and surveys homework performing		
105151165	tasks of independent work: testing (current boundary final control)		
Semester control.	the of independent work, testing (current, coundury, inter control).		
examination	Examination, Computing and Schematic Paper, Testing		
techniques	······································		
Department	Air Transportation Management Department		
Faculty	Faculty of Transport, Management and Logistics		
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Lecturer(s)		IVANNIKOVA VIKTORIIA YURIIVNA Position: Associate Professor Scientific Degree: PhD in Transport Engineering Academic Status: Associate Professor Teacher profile: https://scholar.google.com/citations?user=VdBMeMgA AAAJ&hl=uk Teл.: 044 406-70-94 E-mail: viktoriia.ivannikova@npp.nau.edu.ua Location: 2, 102
Originality of the	Author's course, teaching in English	
subject		
Link to the subject	https://er.nau.edu.ua/handle/NAU/34200	