	SYLLABUS OF THE SUBJECT
UOHA764	«Automated Systems in Designing Elements of Transport
HALL	Systems»
	Educational Professional Program: «Air Transportation
R MCMXXXIII	Management»
AU YHIBE	Field of study: 27 «Transport»
	Speciality: 275 «Air Transport Technologies»
	Specialization: 275.04 «Air Transport Technologies»
Higher Education	First (Bachelor)
Degree	
Subject status	Academic subject of selective component subjects
Course of study	2
Semester	4
Subject volume,	4.0 / 120
ECTS credits / total	
amount of hours	Ukrainian, English
Language To be studied	Students master the basics of engineering design; gaining skills of graphical
(study subject)	display and visualization of information using AutoCAD CAD; clarification of
(study subject)	the principles and acquisition of basic skills of working with specialized
	software in the field of CAD; understanding the principles of construction and
	architecture of CAD, drawing elements, basic requirements for creating and
	editing two-dimensional drawings; acquaintance with methods of calculation
	of technical and economic efficiency of technical decisions accepted in the
	course of designing of components of transport systems; application in practice
	of the obtained theoretical knowledge and skills in the field of CAD.
Why is it	The purpose of teaching the discipline is to study the theoretical and practical
interesting and	foundations of work in software environments of automatic design systems
must be learned?	(CAD) on the example of AutoCAD.
(purpose)	
What is studied?	- Take responsibility, show public consciousness, social activity and participation
(learning results)	in the life of civil society, think analytically, critically understand the world;
	- Critically evaluate the scientific values and achievements of society in the
	development of transport technologies; - Apply, use modern information and communication technologies to solve
	practical problems in the organization of transportation and design of transport
	technologies;
	- Choose information systems for transportation. Operate automated control
	systems and navigation systems in the transportation process. Use electronic
	cards.
How is it possible to	- Ability to use modern information technologies, automated control systems and
use the gained	geographic information systems in the organization of the transportation process;
knowledge and	- Ability to organize international transportation;
skills?	- Ability to design transport (transport-production, transport-warehousing)
(competencies)	systems and their individual elements. Ability to develop and use appropriate software to automate transport systems and processes.
Academic logistics	Subject program: Module №1 «Automated Systems in Designing Elements
requerine rogistics	of Transport Systems»
	Topic 1. General information about computer-aided design.
	Topic 2. Typical design procedures.
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	Topic 3. Typical automated design system.
	Topic 4. Information and CAD software.
	Topic 5. Technical support of CAD.
	Topic 6. General information about AutoCAD.
	Topic 7. Teams for drawing, drawings. Editing drawings.
	Topic 8. Graphic primitives and AutoCAD commands.
	Types of classes:lectures, laboratory classes
	Teaching methods: explanatory-illustrative method; problem statement method;
	reproductive method; research method
	Forms of education: full-time, part-time
Prerequisites	The subject is based on following subjects: «Computer Engineering», «Higher
	Mathematics», «Informational Systems and Technologies on Transport»,
	«Fundamentals of Transport Processes and Systems Theory», «Stochastic
	Processes in Transport Systems»
Post-requisites	The subject is base for studying the following subjects: «Mathematical
-	Modeling of Air Transportation», «Transport Vehicles Operation»,
	«Transportation of Special Goods by Air Transport», «Microcontrollers and
	Programming of Automation Means of Transport Processes and Systems»,
	«Transport Infrastructure», «Fundamentals of Transport Process Designing».
Information	Basic concept of guidance :
support from the	1. Mastering AutoCAD 2020 and AutoCAD LT 2020. By authors: George
fund and repository	Omura Brian C. Benton, New York, United States 1045P.
of NAU library	
of the motuly	2. AutoCAD 2018 For Beginners. Cadfolks R., Createspace Independent
	Publishing Platform - 450 P.
	3. AutoCAD For Dummies. By author: Goodread T., John Wiley & Sons Inc.
	– 546 P.
	4. Проектування систем автоматизації. Навчальний посібник / М.С.
	Пушкар, С.М. Проценко // – Д.: Національний гірничий університет,
	2018. – 268 c.
	5. AutoCad. Basic Tutorial. By author: Dootred T., John Wiley & Sons Inc. –
	456 P.
	6. ДСТУ 2226-93 Автоматизовані системи проектування. Терміни і
	визначення.
Location and	Computer class for labs, laptop, mobile device (phone, tablet) with Internet
	connection for: communication and surveys; homework; laboratory work;
logistics	performing tasks of independent work; testing (current, boundary, final
	control)
Someston control	
Semester control, examination	Graded Test Term Paper Testing
	Graded Test, Term Paper, Testing
techniques	
Department	Air Transportation Management Department
Faculty	Faculty of Transport, Management and Logistics
Lecturer(s)	SHEVCHUK DMYTRO OLEGOVICH
	Position: Head of Department
	Degree: Doctor of Engineering
	Academic Status: Senior Researcher
	Academic Status: Senior Researcher Teacher profile:
	Academic Status: Senior Researcher Teacher profile: http://www.lib.nau.edu.ua/naukpraci/teacher.php?id
	Academic Status: Senior Researcher Teacher profile:

	E-mail: shevchuk@npp.nau.edu.ua Workplace: 2-102	
Originality of the	Author's course, teaching in English	
subject Link to the subject	https://er.nau.edu.ua/handle/NAU/34200	