A MCMXXXIII OF
PHANN YHIBER

SYLLABUS OF THE SUBJECT

«GEOINFORMATIONAL SYSTEMS ON TRANSPORT»

Educational Professional Program: «Air Transportation

Management»

Field of study: 27 «Transport»

Speciality: 275 «Air Transport Technologies»
Specialization: 275.04 «Air Transport Technologies»

	Specialization: 275.04 «Air Transport Technologies»
Higher Education	First (Bachelor)
Degree	
Subject status	Academic subject of professionally-oriented subjects cycle
Course of study	3
Semester	6
Subject volume,	3,5/105
ECTS credits / total	
amount of hours	
Language	Ukrainian, English
To be studied (study	Basic concepts, classification and structure of geographic information
subject)	systems, basic provisions on the concept of geographic information systems,
	types of modern geographic information systems, modern software.
	Principles of operation and application of geographic information systems,
	the main directions of use of geographic information systems in the field of
	transport.
Why is it interesting	Providing future specialists with specific knowledge on the application of
and must be	geographic information systems in the process of planning, forecasting and
learned? (purpose)	supporting management decisions in the activities of transport enterprises.
What is studied?	- Formulate, modify, develop new ideas for improving transport technologies;
(learning results)	- Develop, plan, implement methods of organizing safe activities in the field of
	transport systems and technologies;
	- Apply, use modern information and communication technologies to solve
	practical problems in the organization of transportation and design of transport
	technologies; - Develop and use transport technologies taking into account the requirements
	for environmental protection.
How is it possible to	- Ability to analyze and predict the parameters and performance indicators of
use the gained	transport systems and technologies, taking into account the impact of the
knowledge and	external environment;
skills?	- Ability to use modern information technologies, automated control systems
(competencies)	and geographic information systems in the organization of the transportation
(competences)	process;
	- Ability to organize international transportation.
Academic logistics	Subject program: Module № 1 «Geoinformational Systems on Transport»
	Topic 1. Integration of Ukraine into the world geoinformation space.
	Topic 2. General concepts of information and geoinformation systems.
	Topic 3. Structure, functions and technologies of geographic information systems.
	Topic 4. Information support of geoinformation systems.
	Topic 5. Spatial data models.
	Topic 6. Geographic information systems software.
	Topic 7. Application of geographic information systems.
	Topic 8. Vehicles and traffic management.
	Kinds of sessions: lectures, laboratory classes

	Tacabing mathoday avalanatory illustrative mathod, problem statement
	<u>Teaching methods</u> : explanatory-illustrative method; problem statement method; reproductive method; research method
	Modes of study: full-time
Dropoguigitos	This subject is the basis for studying such subjects, as «Air Passenger
Prerequisites	Transportation», «Information Systems and Technologies on Transport».
Doot no anicitos	1 1
Post-requisites	This subject is the is base for studying following subjects, as:
	«Microcontrollers and Programming of Automation Means of Transport
T. C	Processes and Systems», «Aircraft Handling at Airports».
Information support	Basic concept of guidance:
from the fund and	1. Доля К.В., Доля О.Є. Геоінформаційні системи на транспорті. –
repository of NAU	Харків: ХНУМГ ім. О.М. Бекетова, 2018.
library	2. В.І. Зацерковний. Геоінформаційні системи в науках про Землю / В.І.
	Зацерковний, І.В. Тішаєв, І.В. Віршило, В.К. Демидов – Ніжин: НДУ
	ім. М. Гоголя, 2016. – 510 c.
	3. Геоінформаційні системи і бази даних: монографія. – Кн. 2 / В. І.
	Зацерковний, В. Г. Бурачек, О. О. Железняк, А. О. Терещенко. – Ніжин:
	НДУ ім. М. Гоголя, 2017. – 237 c.
	4. Творошенко І. С. Конспект лекцій з дисципліни «Інтелектуальні
	геоінформаційні системи» / І. С. Творошенко; Харків. нац. ун-т міськ.
	госп-ва ім. О. М. Бекетова Харків: ХНУМГ ім. О. М. Бекетова, 2016.
	- 95 c.
	5. http://er.nau.edu.ua/handle/NAU/28038
	6. http://er.nau.edu.ua/handle/NAU/28040
Location and	(Classroom of theoretical training, laptop, mobile device (phone, tablet)
logistics	with Internet connection for: communication and surveys; homework;
	performing tasks of independent work; testing (current, boundary, final
	control)
Semester control,	Graded Test, Calculation and Graphic Paper, Testing.
examination	
techniques	
Department	Air Transportation Management Department
Faculty	Faculty of Transport, Management and Logistics
Lecturer(s)	AKMALDINOVA VICTORIA YEVHENIVNA
	Position: Senior Lecturer
	Scientific Degree: -
	Academic Status: -
	Teacher profile:
	https://scholar.google.com/citations?user=3zAFsjwAAAA
	J&hl=uk
	Тел.: 044 406-70-94
	E-mail: viktoriia.akmaldinova@npp.nau.edu.ua
0.1.1.110.7	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