

SYLLABUS OF THE SUBJECT<br/>«DATA BASES ORGANIZATION»Educational Professional Program:«Air Transportation Management»Field of study: 27 «Transport»Speciality: 275 «Air Transport Technologies»Specialization: 275.04 «Air Transport Technologies»

Higher Education Degree	First (Bachelor)
Subject status	Academic subject of mandatory component
Course of study	2
Semester	3
Subject volume,	4,5/135
ECTS credits /	
total amount of	
hours	
Language	Ukrainian, English
To be studied	Basics of database organization. SQL language. Methods of optimizing the structure
(study subject)	of databases.
Why is it	Databases are an integral part of modern information systems in transport, such as
interesting and	ticket booking, tracking routes, electronic document management systems,
must be learned?	automation of production processes, etc. Studying the peculiarities of their
(purpose)	of his professional activity
What is studied?	- Take responsibility show public awareness social activity and participation in the
(learning results)	life of civil society, think analytically, critically understand the world;
(learning results)	- Give answers, explain, understand explanations, discuss, report in the state
	language at a level sufficient for professional activity;
	- Apply, use modern information and communication technologies to solve practical
	problems in the organization of transportation and design of transport technologies;
	- Investigate transport processes, experiment, analyze and evaluate the parameters of
	transport systems and technologies;
	- Develop design manage projects in the field of transport systems and
	technologies:
	- Develop, plan, implement methods of organizing safe activities in the field of
	transport systems and technologies;
	- Find solutions for rational methods of organizing loading and unloading operations.
	Plan schedules for loading and unloading operations. To choose mechanisms and
	means of carrying out loading and unloading works;
	- Organize and manage the transportation of passengers and luggage in different
	passenger service at stations and passenger terminals:
	- Evaluate the parameters of traffic flows. Design schemes and networks of transport
	systems. Develop technologies for operational management of traffic flows;
	- Choose information systems for the organization of transportation. Operate
	automated control systems and navigation systems in the transportation process. Use
	electronic cards;
	- Develop conceptual, logical and physical models of the database. Be able to
	program databases using SQL; Re able to apply modern computer integrated technologies and have the skills to
	- be able to apply modern computer-integrated technologies and have the skills to develop algorithms and programs using high-level languages
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How is it possible	- Skills in the use of information and communication technologies:
How is it possible	Ability to work independently and in a team:
to use the gained	- Ability to work independently and in a team,
knowledge and	- Knowledge and understanding of the subject area and understanding of professional
skills?	Ability to examine and manage loading and unloading enanctions and warehousing
(competencies)	- Addity to organize and manage toading and unloading operations and wateriousing
_	operations on transport;
	- Ability to evaluate and ensure ergonomic efficiency of transport technologies;
	- Ability to assess and ensure the safety of transport activities;
	- Ability to use modern information technologies, automated control systems and
	geographic information systems in the organization of the transportation process;
	- Ability to take into account the human factor in transport technologies
Academic logistics	Course content: Module № 1 "Fundamentals of database theory"
	Topic 1. Introduction to the organization of databases.
	Topic 2. Data modeling in computer systems.
	Topic 3. Relational data model.
	Topic 4. Structural language of SQL queries.
	Topic 5. Flat database structure.
	Topic 6. Relational database structure.
	Topic 7. Database triggers.
	Topic 8. Presentation and preservation of the procedure.m
	Module № 2 "Fundamentals of database design"
	Topic 1. Design of relational databases.
	Topic 2. Normalization of databases.
	Topic 3. Generalized methods of database design.
	Topic 4. CASE technology.
	Topic 5. Interaction of application applications with databases.
	Topic 6. Optimization of application databases.
	Topic 7. Database administration.
	Topic 8. Design of distributed databases.
	Topic 9 Non-relational databases
	Module $No3$ (educational component) "Course work"
	Types of classes: lectures laboratory classes
	Teaching methods: explanatory illustrative method: method of problem statement:
	reproductive method: research method
	Forms of study: full-time_part_time
Dronoquigitag	The discipline is based on knowledge of such disciplines as: "Information systems
rrerequisites	and technologies in transport"
Dest requisites	The discipline is the basis for the study of such disciplines as: "Statistical analysis of
Post-requisites	transport systems and processes" "Course work Organization of databases"
T	Educational and processes, Course work Organization of databases
Information	Loucational and scientific interature:
support from the	1. Коннолли томас, Бегт Каролин Базы данных. Проектирование, реализация и
fund and	сопровождение. Геория и практика, издательство Вильямс, 2017, 1440 с.
repository of NAU	2. Організація баз даних: навч. постоник/О.І.Грофименко, Ю.В.Прокої,
library	Н.І.ЛОГІНОВА, І.М.КОПИТЧУК. 2-ГЕ ВИД. ВИПРАВ. 1 ДОПОВН. – Одеса: Фенікс, 2019.–
_	2400. 2. HOTY 190/IEC 2222 17:2005 Later and State
	3. ДСТУ ІЗО/ІЕС 2382-17.2005 інформаціині технологіі. Словник термінів.
	Частина 17. Бази даних.
	4. Берко А.Ю., Верес О.М., Пасічник В.В. Системи баз даних та знань. Книга 1.
	Організація баз даних та знань: навч. посіб. Львів : "Магнолія-2006", 2012, 456
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 control.	Examination, Course Project, Testing
examination	
techniques	
conniques	

Department	Air Transportation Management Department
Faculty	Faculty of Transport, Management and Logistics
Lecturer(s)	GALAGUZ TETIANA
	Position: Associate Professor
	Scientific Degree: PhD in Engineering
	Academic Status: Associate Professor
	Teacher profile:
	https://scholar.google.com.ua/citations?hl=ru&user=Xr38B-
	EAAAAJ
	<b>Tel.:</b> 044 406-70-94
	E-mail: tetiana.galaguz@npp.nau.edu.ua
	Location: 2.113a
Originality of the	Author's course, teaching in English
subject	
Link to the subject	https://er.nau.edu.ua/handle/NAU/34200