	Syllabus on **«BUSINESS ANALYSIS AND DATA PROCESSING»** **Educational Professional Programs:** **“Management of foreign economic activity”,** **“Logistics”,** **“Global logistics and supply chain management”** Specialty: 073 “Management” Field of study: 07 “Management and Administration”
Level of postsecondary education	Master
Course status	Mandatory Subject
Year	1
Semester	1
Credit hours/academic hours	3,5/105
Language of course delivery	English
Course description	Theoretical and practical aspects of data applying, data classification, and the applying of descriptive and inferential methods of data processing
Course rationale (aim)	The aim of the subject is the formation of professional competencies in the use of data, their classification, the use of descriptive and inferential data processing methods, and the application of regression models in the process of decision-making in the logistics management system of the enterprise, as well as the use of information technologies that simplify data processing
Learning outcomes	– to identify problems in the organization and justify the methods of solving them; – apply specialized software and information systems to solve organizational management problems; – to be able to communicate in professional and scientific circles in national and foreign languages; – to be able to plan and implement informational, methodical, material, financial and personnel support of the organization (subdivision); – to apply information technologies and information systems to monitor and optimize logistics processes and systems based on the processing of large databases; – to apply the methodological tools of business analytics when making management decisions; – to identify problems in cost-effective, flexible, reliable supply chains and justify the methods of solving them
Acquired skills and competencies	– ability to solve complex tasks and problems in the field of logistics business process management or in the learning process, which involves conducting research and/or implementing innovations and is characterized by the uncertainty of conditions and requirements; – skills in using information and communication technologies; – ability to abstract thinking, analysis and synthesis; – ability to choose and use management concepts, methods and tools, including in accordance with the defined goals and international standards of supply chain management; – ability to analyze and structure organizational problems, make

	effective management decisions and ensure their implementation; – ability to determine the ways and sources of financing, conduct an economic assessment and analysis of social costs and benefits; – ability to determine the capacity and evaluate the efficiency of the logistics system; – ability to choose methods and tools of data analysis and processing in logistics; – ability to business analytics and processing large databases to improve supply chains (networks).
Course content	**Course content:** Analysis of enterprises-subjects of the supply chain. Data, their classification, data sources. Primary statistical analysis of data. Quantitative approach to data processing. Methods of classification based on the theory of probability and logic. Construction of confidence intervals for parameter value estimation. Parametric linear regressions. **Types of classes:** Lectures, Laboratory classes **Teaching methods:** explanatory-illustrative method; method of problem statement; reproductive method; research method. **Format of learning:** full-time, part-time
Prerequisites	-
Application	"Financial Management in Supply Chains", "Financial Flows in Logistics Systems", "Risks Management in Global Supply Chains", "Risk Managements in Logistics" and others
Information Resources	**NAU repository:** Course Training Program, list of questions for module test and Graded Test, educational and periodical literature on Business Analysis and Data Processing. **List of references** 1.Helen Winter. The Business Analysis Handbook: Techniques and Questions to Deliver Better Business Outcomes. Kogan Page Publishers. 2019. 280 p. 2.Alex Nordeen. Business Analysis: Learn in 24 Hours. Guru99. 2020. 280 p. 3.A Guide to the Business Analysis Body of Knowledge (BABOK Guide). 2015. 512 p. 4.Conrad Carlberg. Business Analysis with Microsoft Excel. Que Publishing, 2018 p. 99998 p. 5.Sandhya Jane Business Analysis: The Question And Answer Book. 2017. 320 p. 6.Fredrik Milani. Digital Business Analysis. Springer, 2019. 429 p.
Location and technical support	Auditoriums of theoretical training, practicals, computer software, multimedia equipment, Google Classroom
Assessment methods, final examinations	Module Test, Graded Test
Department	Logistics Department
Faculty	Faculty of Transportation, Management and Logistics
Instructor	 **SAVCHENKO LIDIIA VOLODYMYRIVNA** **Position:** associated professor **Teacher's profile:** http://ftml.nau.edu.ua/images/klog/Resume/cv_savchenko.jpg **Phone.:** +38(044) 406-7821 **E-mail:** lidiia.savchenko@npp.nau.edu.ua **Office**: 2.126
Course authenticity	Combining and constantly updating modern material on Business

	Analysis and Data Processing, applying in practical training of original business cases
Course URL	In process