



**Bila Tserkva National Agrarian University**  
**Faculty of Economics**  
**Department of Economics and Economic Theory**

	<p style="text-align: center;"><b>SYLLABUS OF THE EDUCATIONAL DISCIPLINE</b>  <b>«ECONOMICS OF PRODUCTION</b>  <b>INFRASTRUCTURE»</b></p> <p>Field of knowledge C1 Social sciences, journalism, information, and international relations  Specialty C1 Economics and international economic relations  Specialization C1.01  Educational program</p>
<b>Level of higher education</b>	second (master's)
<b>Component of the educational program:</b>	selective
<b>Number of ECTS credits / total number of hours</b>	4 credits / 120 hours
<b>Semester</b>	2
<b>Form of control</b>	test
<b>Language of teaching</b>	English
<b>Profile of the teacher</b> 	<p><b>Odnorog Maksym</b>  <b>Position:</b> Associate Professor of the Department of Economics and Economic Theory  <b>Academic rank:</b> associate professor  <b>Scientific degree:</b> candidate of economic sciences  <b>Workplace:</b> educational building No. 4 (Soborna Square, 8/1), room 122. (department of economics and economic theory).  <b>E-mail:</b> maksym.odnorog@btsau.edu.ua  <b>Communication with the lecturer:</b> +380979446077</p>
<b>Description of the discipline</b>	<p>The current transformations taking place in the global economy require the training of specialists who have in-depth knowledge of the functioning of the national economy, the laws of its development, the peculiarities of innovative technologies implemented as part of the Industry 4.0 industrial revolution, and their impact on the organization of production. Without such knowledge, it is impossible to train a qualified specialist. Production infrastructure economics is the science of the general fundamentals of economic life in a society with limited resources, economic systems, human relations in the process of social production, the basics of a market economy, the behavior of economic agents, the peculiarities of national economic development, and the functioning of business entities in this system. The discipline is studied to promote the formation of a holistic system of economic knowledge, modern economic thinking, and to provide students with knowledge of economic analysis methods, without which it is difficult to make and implement effective economic decisions.</p>
<b>Prerequisites for studying the discipline</b>	<p>The elective course «Economics of Production Infrastructure» is based on the knowledge of such disciplines as «Business Economics», «Investing», «Finance», «Enterprise Finance», «Enterprise Capital».</p>

<b>The purpose of studying the discipline</b>	The purpose of studying the discipline is to form the economic component of the professional training of future specialists, which integrates their abilities: to analyze the factors of social production and summarize the characteristics of economic systems; to justify the results of economic activity of the enterprise in the market; to analyze macroeconomic problems of the national economy; to study the processes of effective organization and planning of production; to carry out feasibility studies of production processes.
<b>Format of discipline</b>	<p>For full-time students, the discipline is taught in a face-to-face format, using multimedia. If necessary (individual schedules, dual form of study, distance learning, etc.), Moodle and ZOOM platforms can be used. The format of the discipline is mixed: a combination of traditional forms of education with elements of distance learning.</p> <p>For distance learning, the discipline is taught in a format that combines independent student work and classroom sessions. Students study the main body of material independently, using the provided methodological recommendations, textbooks, and electronic resources. During the training sessions, introductory lectures, practical and consultation classes are held, where key topics of the course are discussed and applied tasks are performed. To support the learning process, electronic educational platforms (Moodle, ZOOM, etc.) are actively used, which provides the possibility of remote consultations, checking individual tasks, and interim knowledge control.</p> <p>The format of teaching the discipline is mixed: it involves a combination of independent study of the educational material with elements of remote interaction between the teacher and the student during the session.</p>
<b>Competencies in accordance with the Higher Education Standard for Specialty «Economy»</b>	<p>ZK4. Ability to apply knowledge in practical situations. ZK8. Ability to search for, process, and analyze information from various sources.</p> <p>SK1. Ability to demonstrate knowledge and understanding of issues in the subject area, the fundamentals of the modern economy at the micro, meso, macro, and international levels. SK8. Ability to analyze and solve problems in the field of production infrastructure economics. SK9. Ability to make forecasts based on standard theoretical and econometric models of the production infrastructure economy. SK14. Ability to analyze problems and phenomena in one or more professional fields in depth, taking into account economic risks and a possible assessment of the production infrastructure economy.</p>
<b>Expected learning outcomes</b>	<p>PRN 6. Use professional arguments to convey information, ideas, problems, and ways to solve them to specialists and non-specialists in the field of economic activity.</p> <p>PRN 10. Analyze the functioning and development of economic entities, determine functional areas, calculate relevant indicators that characterize the effectiveness of their activities.</p> <p>PRN 11. Be able to analyze the processes of state and market regulation of the economy of the production infrastructure.</p>

<b>Course structure</b>	<p><i>Content module 1: Economic bases of production and economic activity of the enterprise. Resource provision of the enterprise. Economic results and production efficiency.</i></p> <p>Topic 1.1. Enterprise as a business entity. The economic mechanism of the enterprise.</p> <p>Topic 1.2. Fixed and current assets of the enterprise.</p> <p>Topic 1.3. Personnel and labor productivity. Organization of labor remuneration at the enterprise.</p> <p>Topic 1.4. Production costs and cost of production. Prices and pricing of the enterprise in the market.</p> <p>Topic 1.5. Financial and economic results of the enterprise. Quality and competitiveness of the enterprise's products.</p> <p><i>Content module 2: Fundamentals of organization and planning of production.</i></p> <p>Topic 2.1. Organization of main production at the enterprise in the conditions of Industry 4.0</p> <p>Topic 2.2. Technological and organizational preparation of production.</p> <p>Topic 2.3. Organization of auxiliary production. Organization of maintenance and repair of equipment.</p> <p>Topic 2.4. Forecasting and planning of enterprise activities.</p>					
<b>Teaching methods</b>	<p>During the lecture hours, the following methods are used: narration – narrative, descriptive form of disclosure of educational material; explanation – for to reveal the essence of a certain phenomenon, law, process; conversation – to realize new phenomena and concepts through dialogue; illustration – to reveal phenomena and processes through their symbolic representation (drawings, diagrams, graphs, slide presentations in Microsoft Office, PowerPoint).</p> <p>During practical classes, the following methods are used: small group work, brainstorming, presentations, project work method, openwork saw.</p> <p>When writing an individual research paper as well as when research method and the «advocato diabolo» technique are used in writing individual research papers and in performing independent work.</p>					
<b>Types of control and assessment criteria</b>	<p>Student performance is assessed through ongoing, modular, and final assessments.</p> <p>Ongoing assessment of students' knowledge of the academic discipline is conducted orally and in writing.</p> <p>Ongoing assessment of students' knowledge is carried out during lectures and practical classes and aims to check the student's level of preparedness to perform specific work. The objects of ongoing assessment are:</p> <ul style="list-style-type: none"><li>- the student's activity and effectiveness during the semester in studying the course material;</li><li>- completion of tasks in practical classes;</li><li>- completion of individual and independent tasks.</li></ul> <p>Modular assessment of knowledge involves identifying the student's level of mastery of the content module material and their ability to apply theoretical knowledge to solve practical situations.</p> <p>The number of points received for each type of academic work in various forms of ongoing assessment is entered into the electronic journal after each assessment event.</p> <p>The final assessment of students' academic performance is carried out in the form of a test.</p> <p>Distribution of points awarded to higher education applicants</p>					
	Maximum possible number of points if the final assessment	Practical classes	Independent work	Modular control	Final assessment	Total score

	form				
	Credit	30	30	40	100
	Grading scale for higher education students				
	On a 100-point scale	On a scale ECTS	On the national scale		
			exam	credit	
	90-100	A	Excellent	Credited	
	82-89	B	Good		
	75-81	C			
	64-74	D	Satisfactory		
	60-63	E			
35-59	FX	Unsatisfactory (failed) with the possibility of retaking the exam			
1-34	F	Unsatisfactory (failed) with mandatory retake			

Policy	<p><b>Policy on Academic Integrity:</b> Students' written work is expected to be their original research or reasoning. Detection of signs of academic dishonesty in a student's written work (plagiarism, lack of references to sources used, fabrication, falsification, deception) is grounds for non-credit by the instructor.</p> <p><b>Attendance Policy:</b> Students are expected to attend all lectures and practical classes of the course. Students are expected to inform the instructor if they are unable to attend. Students make up missed classes according to the teacher's consultation schedule. For objective reasons, training can take place online.</p> <p><b>Policy on deadlines and retakes:</b> students must meet the deadlines for all types of work.</p> <p><b>Policy on assignments:</b> responsibility, diligence, and creativity are positively evaluated.</p> <p><b>Evaluation policy:</b> the means and criteria for evaluation are prescribed in the work program of the discipline posted on the E-learning platform of Bila Tserkva NAU (Moodle).</p>
Recommended sources of information	<p style="text-align: center;"><b>Basic literature</b></p> <p>1. Methodical instructions for conducting practical classes in the discipline «Economics and Organization of Production» for students of the Faculty of Engineering and Chemistry. Compiled by: Zadolsky A. M., Kukharuk A. D. K.: IVC «Polytechnic Publishing House», 2013. 40 c.</p> <p>2. Organization of production: textbook / A. I. Yakovlev [et al.] «Kharkiv Polytechnic Institute». Kharkiv : NTU «KHPI», 2016. 436 c.</p> <p>3. Organization of production: a workshop / T.V. Kravchenko, T.S. Onysenko. «Kyiv University» Publishing House, 2017. 191 c.</p> <p>4. Skorobohatova N.E. Accounting: a textbook / N.E. Skorobohatova. Kyiv: Igor Sikorsky Kyiv Polytechnic Institute, Publishing house «Polytechnic», 2017. 248 c.</p> <p>5. State Statistics Service of Ukraine [Electronic resource] – Access mode: <a href="http://www.ukrstat.gov.ua/">http://www.ukrstat.gov.ua/</a>.</p> <p>6. Ministry of Finance of Ukraine [Electronic resource] – Access mode: <a href="http://www.minfin.kmu.gov.ua">http://www.minfin.kmu.gov.ua</a></p> <p>7. Ministry of Economic Development and Trade of Ukraine [Electronic resource] – Access mode: <a href="http://www.me.gov.ua/">http://www.me.gov.ua/</a></p>