COURSE SYLLABUS «SYSTEMS OF TECHNOLOGIES: CROP PRODUCTION»



Degree of higher education - Bachelor Specialization <u>075 Marketing</u> Educational programme «Marketing» Academic year 1, semester 1 Form of study __ full-time Number of ECTS credits __ 2.4 (4)__ Language of instruction English

Lecturer of the course Contact information of the lecturer (e-mail) Course page on eLearn

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https://elearn.nubip.edu.ua/course/view.php?id=459

COURSE DESCRIPTION

(up to 1000 printed characters)

The main purpose of the discipline is to provide knowledge and skills for the rational selection and effective application of various technological elements aimed at increasing crop productivity, reducing production costs, and enhancing the competitiveness of the obtained agricultural products. The key tasks include acquiring practical skills in producing high-quality, environmentally friendly products with minimal energy and labor costs while maximizing the output per unit of time and unit of area. This requires wide implementation of variety-based, intensive, energy- and resource-efficient, and environmentally sustainable technologies. It also involves the ability to align the cultivation of agricultural crops with market demands. The discipline covers theoretical foundations of occupational safety, legal aspects of occupational safety for workers in plant production, safety techniques in plant production, and fire safety in plant production.

Competencies of the educational programme:

Integrative competency (IC):_ The ability to solve complex specialized tasks and practical problems in the field of marketing or during the learning process, which involves the application of relevant theories and methods, and is characterized by complexity and uncertainty of conditions.

General competencies (GC):

GC4. The ability to learn and acquire contemporary knowledge.

GC5. Determination and perseverance in achieving set goals and fulfilling responsibilities.

GC11. The ability to work in a team.

GC13. The ability to work in an international context.

Professional (special) competencies (PC):

PC 7. The ability to substantiate, present, and implement research findings in the field of marketing.

Program learning outcomes (PLO) of the educational programme: ____

PLO 5. The ability to identify and analyze key characteristics of marketing systems at different levels, as well as the behaviors of their subjects.

PLO 9. The ability to evaluate risks in conducting marketing activities, determine the level of uncertainty in the marketing environment when making management decisions.

PLO 11. Demonstrating the ability to apply an interdisciplinary approach and perform marketing functions of a market entity.

PLO 13. Being accountable for the results of one's activities and demonstrating entrepreneurial and managerial initiative.

PLO 26. Preparing founding documents and registering a business, taking into account the specifics of different organizational and legal forms of economic activity in accordance with current legislation.

COURSE STRUCTURE							
	Hours (lecture/laborator	.		Assessme			
Торіс	y, practical,	Learning outcomes	Tasks	nt			
	seminar)						
	Semester 1						
Module 1 Features and prospects of using marketing tools in crop production.							
Topic 1: Plant	2/2	To know about the current state and prospects for the	Submitting	35			
science as a	2/2	and prospects for the development of the agriculture	laboratory work.				
discipline and		sector; the importance,	Completing				
branch of		distribution, morphological and	independent				
agriculture. The		biological characteristics of	work				
state of modern		agricultural crops; modern	(including				
crop production		technologies for growing field	in eLearn)				
in Ukraine and		crops and peculiarities of their implementation in soil-climatic	Pass module				
the world.	a /a	zones of Ukraine; ways to	control				
Topic 2. Cereals is	2/2	improve the quality of	(more than				
a basis of crop		agricultural products; sources of	60 % of				
production		expenses for growing	maximum				
Topic 3.	2/2	agricultural crops and ways to optimize them.	points is a				
Organizational		opuninze them.	check point)				
principles of							
effective winter							
wheat cultivation.	2/2						
Topic 4. Early and	2/2						
late spring							
cereals –							
organizational							
principles of							
effective							
cultivation	2/2						
Topic 5. Legumes.	2/2						
Management in							
cultivation							
technologies of							
peas and soybean	ization of aultive	tion of industrial arong (now	matariala) far				
Mouule 2. Organ	ization of cultive	ntion of industrial crops (raw i industry.		processing			
Topic 6. Tuber	2/2	To be able to plan and organize	Submitting	35			
crops. general		the implementation of	laboratory				
characteristics		technological processes in agriculture; to apply innovative	work.				
features at		elements in crop cultivation	Completing				
management of		technologies; to program crop	independent				
production		yields for agricultural crops; to	work				
Topic 7. Root	2/2	plan the production of high-	(including in eLearn)				
crops. Sugar		quality, ecologically safe	Pass				
beets is a main		products with minimal energy costs per unit of output; to	module				
raw material for		prevent yield losses during	control				
sugar production		cultivation, harvesting, and	(more than				
Topic 8. The place	2/2	storage; to use operational	60 % of				
of oil crops in		information for timely and high-	maximum				
Ukraine and the		quality implementation of					

COURSE STRUCTURE

world. Choosing a crop and management in its cultivation Topic 9. Sunflower and rapeseed - the main oil crops of Ukraine and the world	2/2	complex agricultural work. To distinguish between crops and the products obtained from them. To use acquired knowledge and skills in production during internships and other practical experiences	points is a check point)	
Total for 1	18/18	-		70
semester				
Exam				30
Total for course			100	

ASSESSMENT POLICY

Policy regarding deadlines and resits:	 Tasks must be submitted on time, according to the delivery schedule. Penalty for delay: 10% – less 1 month 20% – more 1 month Re-assessment will be allowed if you pass all tasks in module 	
Academic honesty policy:	Plagiarism and re-delivery tasks don't allow	
Attendance policy:	Attendance is mandatory. For objective reasons (for example, illness, international internship) training can take place individually (in online form in consultation with the dean of the faculty)	

SCALE OF ASSESSMENT OF STUDENT KNOWLEDGE

Student rating,	Ident rating, National grade based on exam results		
points	exams	credits	
90-100	excellent	passed	
74-89	good		
60-73	satisfactory		
0-59	unsatisfactory	not passed	

RECOMMENDED SOURCES OF INFORMATION

- 1. CROP PRODUCTION GUIDE AGRICULTURE. Tamil Nadu Agricultural University. 2020. Link:<u>https://www.freebookcentre.net/biology-books-</u> <u>download/gotoweb.php?id=13855</u>
- Graham Thiele, Michael Friedmann, Hugo Campos, Vivian Polar, Jeffery W. Bentle. Root, Tuber and Banana Food System Innovations. Springer, 2022. DOI: <u>https://doi.org/10.1007/978-3-030-92022-7</u>
- 3. Kalenska S., Dmytrishak M., Antal T., Mazurenko B., M. Я. Crop production with basis of fodder production, Kyiv, 2021. [In Ukrainian]
- Petrichenko V.F., Lykhochvor V.V. Roslynnytstvo. Novi tekhnolohii vyrashchuvannia polevykh kultur: pidruchnyk. - 5-te vid., vyrav., dopov. Lviv: NVF "Ukrainski tekhnolohii", 2020. 806 p. (Title: Crop Production. New Technologies for Field Crop Cultivation: Textbook)

Additional sources of information:

- 1. Crop production manual. FAO. 2020. Available at: https://www.fao.org/3/ca7556en/CA7556EN.pdf
- 2. Statistics in Agriculture. Available at: <u>https://fao.org/faostat</u>
- 3. Ministry of Agriculture Politics <u>http://www.minagro.kiev.ua/</u>
- 4. Technology of cultivation (field crops) <u>http://agro-business.com.ua/</u>
- 5. Technology of cultivation (field crops) <u>https://www.agronom.com.ua/</u>
- 6. Precision farming (Demo tools for studying) <u>https://www.agrivi.com/blog/precision-farming/</u>
- 7. All about pesticides <u>https://pesticidestewardship.org/homeowner/understanding-pest-management/</u>