



COURSE SYLLABUS

«Standardization and quality management of planting products»

Degree of higher education - Bachelor

Specialization 201 Agronomy

Educational programme «Agronomy»

Academic year 3, semester 5

Form of study: full-time

Number of ECTS credits 5.0

Language of instruction: English

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

Voitsekhivskiy Volodymyr

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<https://elearn.nubip.edu.ua/course/view.php?id=3866>

COURSE DESCRIPTION

The discipline includes the study of the following issues: goals and objectives of standardization, the essence of standardization as a science, methodological foundations of standardization, issues of product quality, standardization of product quality indicators and control methods, international standards. General information about domestic and foreign experience of product quality management, product certification and metrological support. Mastering the current requirements for crop production with the aim of planned production of competitive products. Development of effective product quality management measures in the production of high-quality, ecologically safe, organic and competitive products. Mastering the principles and procedures of product certification for the domestic market and export. Peculiarities of the creation and implementation of the ISO 9000 standards system in production with subsequent accreditation of the quality management system. When teaching the discipline, current laws are taken into account.

Competencies of the educational programme:

Integrative competency (IC): ability to solve complex specialized tasks and practical problems in agronomy, which involves the application of theories and methods of the relevant science and is characterized by complexity and compliance with zonal conditions

General competencies (GC): 3. Ability to abstract thinking, analysis and synthesis; 4. Ability to communicate in the national language both orally and in writing; 6. Knowledge and understanding of the subject area and understanding of professional activity; 7. Ability to apply knowledge in practical situations; 8. Skills of performing safe activities; 9. Ability to search, process and analyze information from various sources.

Professional (special) competencies (PC): 8. The ability to solve a wide range of problems and tasks in the process of growing agricultural crops, by understanding their biological features and using both theoretical and practical methods; 9. Ability to manage complex actions or projects, responsibility for decision-making in specific production conditions.

Program learning outcomes (PLO) of the educational programme: 4. To compare and evaluate modern scientific and technical achievements in the field of agronomy; 5. Conduct a literature search in Ukrainian and foreign languages and analyze the information received; 6. Demonstrate knowledge and understanding of fundamental disciplines to the extent necessary to possess relevant skills in the field of agronomy.

COURSE STRUCTURE

Topic	Hours (lecture/lab oratory, practical)	Learning outcomes	Tasks	Assessment
Semester 5				
Module 1				
Topic 1. Organizational bases of	2/2	ability to use professionally profiled knowledge and practical skills in the field of cereal standardization to	having a completed assignment in a notebook for laboratory work and sending an electronic file	Topic 1 – 10; Pr.w.1-10.

standardization in Ukraine / Requirements for wheat grain		ensure the fulfillment of technological conditions for obtaining standard products	with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	
Topic 2. Methodological bases of standardization / Requirements for barley grain	2/2	know the principles and methods of standardization. Mastering the current requirements for barley grain for various purposes.	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 2 – 10; Pr.w.1-10.
Topic 3. Qualimetry - the scientific basis of quality assessment / Requirements for leguminous crops	3/3	know the basics of qualimetry. Development of current requirements for leguminous crops.	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 3 – 10; Pr.w.1-10.
Topic 4. Technical quality control / Requirements for grain crops	4/4	Mastering various methods of quality control and technological processes. Development of current requirements for cereal crops.	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 4 – 10; Pr.w.1-10.
Topic 5. Product quality management / Requirements for oil crops	4/4	Acquaintance with various management schemes in order to improve the efficiency of the work of rural and urban areas. production Development of current requirements for oil crops.	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 5 – 10; Pr.w.1-10.
Total for 1 Module				100
Module 2				
Topic 1. Standardization of grain and leguminous crops / Requirements for seeds of grain crops	2/2	Ability to use knowledge and practical skills to assess the quality of grain and leguminous crops. To be able to provide professional knowledge, consultations, own justifications and conclusions for specialists of	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to	Topic 1 – 10; Pr.w.1-10.

		the general public, who are engaged in assessing the quality of grain crop seeds.	questions for practical work.	
Topic 2. Standardization of fruit crops and planting material / Requirements for grain crops	2/2	Ability to use knowledge and practical skills to assess the quality of fruit crops. Be able to provide professional knowledge, consultations, own justifications and conclusions for specialists of the general public, who are engaged in the assessment of the quality of fresh products of grain crops.	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 2 – 10; Pr.w.1-10.
Topic 3. Standardization of vegetable and technical crops / Requirements for vegetable crops and sugar beet	3/3	Ability to use knowledge and practical skills to assess the quality of vegetable and industrial crops. To be able to provide professional knowledge, consultations, own justifications and conclusions for specialists of the general public, engaged in the evaluation of the quality of fresh produce of vegetable and industrial crops.	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 3 – 10; Pr.w.1-10.
Topic 4. Standardization of plant protection products and mineral fertilizers / Standardization of stone and berry crops	4/4	Ability to use knowledge and practical skills to assess the quality of pesticides and fertilizers and that needs To be able to analyze, to have the ability to conduct consultations for specialists of the general public, engaged in the evaluation of the quality of fresh products of stone and berry crops.	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 4 – 10; Pr.w.1-10.
Topic 5. Fundamentals of product certification / Standardization of root vegetables	4/4	Ability to prepare a batch of products for the certification procedure. Be able to analyze, have the ability to conduct consultations for specialists of the general public, who are engaged in the assessment of the quality of fresh produce of root vegetables	having a completed assignment in a notebook for laboratory work and sending an electronic file with completed assignments through the Elearn system. Written and oral answers to questions for practical work.	Topic 5 – 10; Pr.w.1-10.
Total for 1 Module				100
Total for educational work				70
Exam				30
Total for course				100

ASSESSMENT POLICY

Policy regarding deadlines and resits:	Assignments submitted after the deadline without valid reasons will be graded lower. Resitting of modules will be allowed with the permission from the lecturer and in the presence of valid reasons (e.g. medical reasons).
Academic honesty policy:	Cheating during tests and exams is strictly prohibited (including the use of mobile devices). Coursework and research papers must contain correct citations for all sources used.
Attendance policy:	Class attendance is mandatory. In case of objective reasons (such as illness or international internships), individual learning may be allowed (in online format by the approval of the dean of the faculty).

SCALE OF ASSESSMENT OF STUDENT KNOWLEDGE

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

RECOMMENDED SOURCES OF INFORMATION

Basic

1. Подпратов Г.І., Хилевич В.С, Мацейко Л.М., Войцехівський В.І. Методичні вказівки до вивчення дисципліни “Стандартизація і управління якістю сільськогосподарської продукції” і завдання для контрольної роботи студентам заочної форми навчання агрономічних та економічних спеціальностей / Видавничий центр НАУ. 2011. 13с.

1. Подпратов Г.І., Войцехівський В.І., Мацейко Л.М., Рожко В.І. Основи стандартизації, управління якістю та сертифікація продукції рослинництва: Посібник. К.: Арістей. 2-е вид. перер. і доп. 2017. 620 с.

2. Подпратов Г.І., Скалецька Л.Ф., Войцехівський В.І., Мацейко Л.М. Стандартизація та контроль якості продукції рослинництва / Практикум. К.: НАУ. 2012. 279 с.

3. Войцехівський В.І., Подпратов Г.І. Методичні вказівки щодо вивчення дисципліни "Стандартизація та сертифікація продуктів переробки з рослинницької сировини", виконання самостійної роботи та самоконтролю знань для студентів заочної форми навчання агробіологічного факультету напряму, за спеціалізацією «Транспортування, зберігання, переробка продукції рослинництва». К.: Видавничий центр НУБіП України. 2012. 99с.

4. Войцехівський В.І., Піддубний О.Ю. Методичні вказівки щодо вивчення дисципліни «Стандартизація та правознавство у захисті рослин» , виконання самостійної роботи та самоконтролю знань для студентів заочної форми навчання. К.: Копрінг. 2019. 142 с.

5. Тарасова В.В., Малиновський А.С., Рибак М.Ф. Метрологія, стандартизація і сертифікація. К.: Центр навчальної літератури, 2006. 264 с.

Recommended Literature

1. Койфман Ю.І. та інші. Принципи, методи та досвід роботи у сфері забезпечення якості і сертифікації: система якості, правила сертифікації. Посібник. Львів-Київ, 1995.348 с.

2. Сертифікація в Україні. Нормативні акти та інші документи. К.: Основа. Т.1.1998. 368с.

3. Цюцюра С.В., Цюцюра В.Д. Метрологія, основи вимірювань, стандартизація та сертифікація. – К.: Знання, 2005. – 242с.

13. Інформаційні ресурси

<http://www.leonorm.com/>;

<http://www.ukrcsm.kiev.ua>