

Course code:

Plan position:

A. INFORMATION ABOUT THE COURSE

B. Basic information

Name of course	Horticulture
Field of studies	Agriculture/Biotechnology
Level of studies	I (engineer) or II (master)
Profile of studies	general academic
Form of studies	stationary
Specialty	
Unit responsible for the field of studies	Faculty of Agriculture and Biotechnology, Laboratory of Ornamental Plants and Vegetable Crops
Name and academic degree of teacher(s)	Anita Woźny, PhD, Alicja Tymoszuik, PhD
Introductory courses	none
Introductory requirements	no requirements

C. Semester/week schedule of classes

Semester	Lectures (W)	Auditorium classes (Ć)	Laboratory classes (L)	Project classes (P)	Seminar (S)	Field classes (T)	Number of ECTS points
	10		15				25

2. LEARNING OUTCOME

No.	Learning outcomes description	The reference to the learning outcomes of specific field of study	The reference to the learning outcomes for the area
KNOWLEDGE			
W1	The student has basic knowledge about the biology of vegetable and ornamental plants as well as agrotechnical conditions of horticultural production.	K_W01 K_W08	P6S_WG
W2	The graduate student is able to define and interpret basic horticultural concepts and knows basic technologies used in horticultural production.	K_W08	P6S_WG
SKILLS			
U1	The graduate student can identify factors determining horticultural production and determine their impact on economy sector.	K_U07	P6S_UW
U2	The student is able to plan vegetable and ornamental plant cultivation technology in connection with socio-economic and environmental conditions.	K_U07 K_U08 K_U11	P6S_UW
SOCIAL COMPETENCES			
K1	The graduate student is aware of his knowledge and skills, understands the need for continuous training in the	K_K01 K_K02	P6S_KK

	field of dynamic progress in the field of improving the production of horticultural plants.		
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3. TEACHING METHODS

A. Traditional methods used ***

multimedia lecture, laboratory exercises, discussion

B. Distance learning methods used ***

Synchronous method (classes conducted in a way that ensures direct interaction between the student and the teacher in real time, enabling immediate flow of information, the method can be used only if it is provided for in the study plan for a given cycle of education):
e.g. remote lecture in the form of videoconference, remote discussion, etc.

Used in emergency situations specified by the relevant order of the Rector of PBS.

Asynchronous method used as an auxiliary (a method that does not ensure direct interaction between the student and the teacher in real time, used only as an auxiliary / complementary method):
e.g. online educational videos, online multimedia presentations, etc.

The asynchronous method is used to supplement the material presented in class.

4. METHODS OF EXAMINATION

Lectures:

form of examination: final written exam

pass conditions: W1, W2 - obtaining on the final exam at least 51% of points confirming the achievement of the learning outcomes listed in paragraph 2

Laboratories (at least 80% of presence required):

form of examination: final written test,

pass conditions: U1, U2, K1 - obtaining at least 51% of points confirming the achievement of each of the learning outcomes listed in paragraph 2

Components of the final evaluation:

0,5 – grade from written exam from lectures

0,5 – grade from written tests from laboratories

Components of the final grade: from the Study Regulations:

grading scale depending on the level of achievement of learning outcomes (given as a percentage):

a) from 91% very good (5.0);

b) from 81% good plus (4.5);

c) from 71% good (4.0);

d) from 61% satisfactory plus (3.5);

e) from 51% satisfactory (3.0);

f) below 51% unsatisfactory (2.0).

final grade based on partial grades (lectures and laboratory classes):

a) from 4.76 very good (5.0);

b) from 4.26 good plus (4.5);

c) from 3.76 good (4.0);

d) from 3.26 satisfactory plus (3.5);

e) from 3.00 satisfactory (3.0); f) below 3.00 unsatisfactory (2.0).

5. SCOPE

Lectures	Specificity of the horticultural production. Classification of horticultural plants. Types and functions of cultivation facilities used in horticulture. Biological and environmental factors determining the production of horticultural plants. Chemical and ecological factors determining the growth and habit of plants.
Laboratories	Methods of propagation of horticultural plants. Role, types and applications of horticultural substrates in different cultivation systems. Modern technologies of cultivation of the most important species of vegetable and ornamental plants in the ground and under covers. Characteristics and importance of basic groups of vegetable plants. Harvesting and preparing vegetables for sale.

6. METHODS OF VERIFICATION OF LEARNING OUTCOMES

LEARNING OUTCOME	Form of assessment					
	Oral examination	Written exam	Colloquium	Project	Presentation
W1		x	x			
W2		x	x			
U1			x			
U2			x			
K1		x				

7. LITERATURE

Basic literature	Prohens J., Nuez F., 2008. Vegetables I. Asteraceae, Bassicaceae, Chenopodicaceae, and Cucurbitaceae. Springer, New York. Prohens J., Nuez F., 2008. Vegetables II. Fabaceae, Liliaceae, Solanaceae, and Umbelliferae. Springer, New York. greenhousegrower.com
Supplementary literature	

8. TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE EXPECTED LEARNING OUTCOMES EXPRESSED IN TIME AND ECTS CREDITS

Student's activity		Student workload– number of hours
Classes conducted under a direct supervision of an academic teacher or other persons responsible for classes	Participation in classes indicated in point 1B	25
	Supervision hours	5
Student's own work	Preparation for classes	30
	Reading assignments	30
	Other (preparation for exams, tests, carrying out a project etc)	35
Total student workload		125
Number of ECTS points		5

