SYLLABUS (MODULE-ERASMUS+)

Course/module (as specified in the approved curriculum for the field of study) **Vegetable production in Poland**	ECTS	Catalogue number
Name in Polish **Produkcja warzywnicza w Polsce**	**5**	**HORT 4.2**
Head of course/module **Dr inż. Agnieszka Jasińska**		
Unit(-s) providing the course/module (Institute/Department) **Department of Vegetable Crops**		

Field of study	Level	Profile	Semester
Horticulture		**Academic-general**	**winter**

TYPE OF CLASSES/LECTURES AND THE NUMBER OF HOURS
(organised classes/lectures and self-study)

Type of studies: full-time		Type of studies: extramural	
- lectures	15	- lectures	X
-		- classes	X
- laboratory practical	20	-	
- project based practical	10	-	
- Other – tutored		-	
- self-study	80	- self-study	
Total number of hours:	125	Total number of hours:	X

OBJECTIVE OF COURSE/MODULE

The aim of the course is to gain knowledge of cultivation technologies of vegetable species in Poland. Students should master the following topics: vegetable production in Poland, irrigation, fertigation and plant nutrition techniques, vegetable plant protection and biology of vegetable crops.

TEACHING METHODS

Lecture supported by multimedia presentation, exercises, discussion

	LEARNING OUTCOMES	Reference to field outcomes	Reference to area outcomes
Knowledge	E1 – Student knows specialized vocabulary in the field of vegetables, knows the species and varieties of vegetables, has knowledge of vegetable propagation, knows the basic technologies of growing vegetables	*Not applicable*	*Not applicable*
Skills	E2 – Student is able to identify basic vegetable plants and their pests, can select and apply methods of vegetable propagation, identifies and analyzes phenomena that determine the health of vegetable plants, and has the ability to solve problems occurring in vegetable cultivation.		
Social competences	E3 – The student understands the need to constantly expand and acquire knowledge in the field of vegetables, can properly define priorities for tasks, cooperate and work in a team, properly can properly determine the priorities for carrying out tasks, cooperate and work in a team; Correctly identifies and resolves dilemmas related to the field of vegetable industry, is aware of the level of knowledge and skills and understands the need for self improvement in the field of vegetable cultivation, is able to think and act in an entrepreneurial way.		

Methods to verify learning outcomes	Outcome Reference Numbers
Written test	E1, E2
Project making	E1, E2, E3
Written exam	E1, E2

TEACHING CONTENT

Content of lectures: Vegetables grown in Poland (in the open field and under protection), vegetable production technologiesunder protection; Agrobiological, climatic and economic factors affecting the production of vegetables; Current problems of Polish vegetables crop production; Fertilization and irrigation in vegetable cultivation; Protection of vegetable crops; Organic vegetable growing; harvest; postharvest treatment and vegetable storage; cultivation of selected vegetable crops

Content of exercises: Knowledge of species and varieties of vegetables; Get acquainted with the collection of vegetables; Identification of vegetable varieties based on basic morphological, sensory and other characteristics; Measurement of characteristic morphological characteristics of vegetables; Calculation of selected parameters; Observations of growing vegetables on the collection in various phases of development; Execution of descriptions and measurements

Demonstration practicals: A discussion of the latest technologies and varieties occurring in commodity vegetable cultivation in Poland

Project: Planning of field production of vegetables in a modern commodity farm

Forms and criteria for passing of course/module	Percentage of final mark
Written test	25%
Project making	15%
Written exam	60%

LIST OF LITERATURE

Basic literature

Rubatzky V.E. and Yamaguchi M. 1997. World vegetables. Principles, Production, and Nutritive Values. Second edition. Chapman & Hall. New York.

https://www.esciencecentral.org/journals/recent-trends-in-horticulture-2376-0354-1000e105.pdf