Course name: Organic Farming

ECTS	3
Course status	*optional*
Course final assessment /evaluation of outcomes	credit for evaluation
Prerequisite	non

Main field of study:

Educational profile	general academic
Code of studies and education level	bachelor
Semester of studies	winter
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Agriculture and Economics
Name of department offering the course	Agroecology and Plant Production
Course coordinator	Agnieszka Synowiec

Learning outcomes:

Symbol of outcome	Description of the learning outcome	Reference to main field of study outcomes	Area symbol*
KNOWLEDGE – student knows and understands:			
OF_W1	Principles of organic farming system	RO1_W06 RO1_W19	RR
SKILLS – student is able to:			
OF_U1	design crop rotations in line with the requirements of the organic farming system, including fertilization and pest management methods	RO1_U21 RO1_U03	RR
SOCIAL COMPETENCIES – student is ready to:			
OF_K1	understands the need for continuous study due to progress in this field of knowledge	RO1_K01 RO1_K05	RR

Teaching contents

Lectures	**15 hours**
Topics	1 General characteristics of organic farming 2. The role of crop rotation 3. Soil cultivation 4. Fertilization in organic farming 5. Crop protection 6. Crop protection 7. Catch crops 8. Transition to organic farming 9. Cereals in organic farming 10. Root crops in organic farming 11. Legumes and perennials in organic farming 12. Vegetables and fruits in organic farming 13. Animal breeding 14. Organic farm certification 15. Profitability of organic farming
Accomplished learning outcomes	*OF_W1*
Means of verification, rules and criteria of assessment	*Methods and criteria for assessing lectures: colloquium*

	Evaluation E (2.0) Does not know the basic definitions of organic farming, cannot design a proper crop rotation. *D (3.0) Knows the basic principles of organic farming.* *C (3.5) Knows the basic principles of organic farming. Can design a crop rotation.* *B (4.0) Knows the principles of organic farming well. Can design a proper crop rotation, including fertilization.* *B + (4.5) Knows the principles of organic farming very well. Can design a crop rotation, including methods of fertilization and pest management.* *A (5.0) Fluent in the principles of organic farming. Designs a crop rotation, including methods of fertilization and pest management.*

Classes:	**10 hours**
Topics	1-2. Transition of farms to the organic farming system - selection of crops for crop rotation, soil cultivation, plant protection and their management. 3-4. Crop rotation, specifics of crop cultivation 5-6. Soil cultivation (agrotechnological cards for crops in rotation) 7-8. Plant nutrition (permitted mineral and organic fertilizers) 9–10. Plant protection in narrow and wide row species
Accomplished learning outcomes	OF_U1, OF_K1
Means of verification, rules and criteria of assessment	*E (2.0) Does not know the basic definitions of organic farming, cannot design a proper crop rotation.* *D (3.0) Knows the basic principles of organic farming.* *C (3.5) Knows the basic principles of organic farming. Can design a crop rotation.* *B (4.0) Knows the principles of organic farming well. Can design a proper crop rotation, including fertilization.* *B + (4.5) Knows the principles of organic farming very well. Can design a crop rotation, including fertilization and pest management methods.* *A (5.0) Fluent in the principles of organic farming. Designs a crop rotation, including fertilization and pest management methods.*

Field training:	**5 hours**
Topics	Visiting an organic farm
Accomplished learning outcomes	OF_U1, OF_K1
Means of verification, rules and criteria of assessment	*Methods and criteria for assessing field activities: attendance and report.*

References:

Basic	B. Šarapatka, J. Urban et al. 2009. Organic Agriculture. IAEI, Prague Natural resource management in agriculture. 2004. Ed.: B. Shiferaw, H.A. Freeman, S.M. Swinton, CABI Publishing. Organic agriculture A global perspective. 2006. Ed.: Kristiansesn P., Taji A., Reganold J., CABI Publishing
Supplementary	Klima, K., Synowiec, A., Puła, J., Chowaniak, M., Pużyńska, K., Gala-Czekaj, D., ... & Lepiarczyk, A. (2020). Long-term productive, competitive, and economic aspects of spring cereal mixtures in integrated and organic crop rotations. Agriculture, 10(6), 231.

Structure of learning outcomes

Area of academic study:	3 ECTS

Structure of student activity

Contact hours	38	hrs.	1.5 ECTS**

Including:	lectures	15	hrs.		
	classes and seminars	15	hrs.		
	consultations	5	hrs.		
	participation in research		hrs.		
	obligatory traineeships		hrs.		
	participation in examination	3	hrs.		
e-learning			hrs.		ECTS**
student own work		37	hrs.	1.5	ECTS**

*Areas of academic study in the fields of: H- humanities; S - social studies; P – biological sciences; T – technological sciences; M- medical, sport and health sciences; R – Agricultural, forestry and veterinary sciences; A – the arts
** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes