

Course name:
Systematics and characteristic of crop plants

ECTS	3
Course status	<i>facultative</i>
Course final assessment /evaluation of outcomes	<i>Exam</i>
Prerequisite	<i>basic principles of plant biology</i>

Main field of study:
Agriculture and Horticulture, Biology and Biotechnology (Erasmus+)

Educational profile	General academic
Code of studies and education level	bachelor/engineer (SI) or master of science (SM)
Semester of studies	Summer semester
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Biotechnology and Horticulture
Name of department offering the course	Department of Botany, Physiology and Plant Protection
Course coordinator	Dr. Sc. Alina Wiszniewska

Learning outcomes:

Symbol of outcome	Description of the learning outcome	Reference to main field of study outcomes	Area symbol*
KNOWLEDGE – student knows and understands			
SCP_W1	origin of plants, main directions of their evolution and rules of taxonomical classification, with special emphasis on crop species	EPB2_W02	R
SCP_W2	threats to natural environment and biodiversity resulting from intensification of world agricultural production	EPB2_W03	R
SKILLS – student is able to			
SCP_U1	elaborate a review of the most important crops in distinct regions of the world	EPB2_U03	R
SCP_U2	recognize taxonomical identity of the most important crop species	EPB2_U05	R
SCP_U3	indicate exploitation of selected plant species and their products in agriculture, human nutrition, biotechnology and pharmacy	EPB2_U05	R
SOCIAL COMPETENCIES – student is ready to:			
SCP_K1	Be responsible for condition of environment and its resources in relation to intensive agricultural production	EPB2_K04	R

Teaching contents

Lectures	15 hours
Topics	1. Plant phylogeny

	2. Principles of plant taxonomy and nomenclature
	3. Evolutionary tendencies of land plants and their biological consequences
	4. Threats to biodiversity and natural environment related to intensive agricultural production
Accomplished learning outcomes	SCP_W1-W2
Means of verification, rules and criteria of assessment	Graded presentation (50%)
Classes:	15 hours
Topics	1. Systematic review of the most important groups of crop plants: agricultural crops 2. Vegetable crops. 3. Fruit crops 4. Herbal and pharmaceutical crops 5. Ornamental crops 6. Cultivation and exploitation of lower plants (alga)
Accomplished learning outcomes	SCP_U1-U3, SCP_K1
Means of verification, rules and criteria of assessment	Graded presentation on suggested topic (50%)

References:

Basic	<i>Plant Systematics. 2019. Simpson M. Academic Press</i>
Supplementary	<i>Plant Diversity and Evolution. 2006. Ingrouille MJ, Eddie B. Cambridge University Press</i> https://www.bioversityinternational.org

Structure of learning outcomes

Area of academic study: R – Agricultural, forestry and veterinary sciences	3,0 ECTS **
Area of academic study: T – technological sciences	ECTS**

Structure of student activity

Contact hours	34	hrs.	1,4 ECTS**
Including:			
lectures	15	hrs.	
classes and seminars	15	hrs.	
consultations	2	hrs.	
participation in research	...	hrs.	
obligatory traineeships	...	hrs.	
participation in examination	2	hrs.	
e-learning	...	hrs. ECTS**
student own work	41	hrs.	1,6 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