Course Unit Descriptor

Study Programme: Agronomy

Course Unit Title: Advanced herbology 1

Course Unit Code: 19ДАГИ2067

Name of Lecturer(s): Full Prof. Bojan Konstantinović, PhD

Name of Associate(s): Assoc. Prof. Milena Popov, PhD

Type and Level of Studies: Doctoral studies

Course Status (compulsory/elective): elective

Semester (winter/summer): summer

Language of instruction: English

Mode of course unit delivery (face-to-face/distance learning): face-to-face

Number of ECTS Allocated: 7

Prerequisites: -

Course Aims: Acquiring the knowledge on the weed species in cultivated plants, their spread and importance for agricultural and non-agricultural areas.

Learning Outcomes: The knowledge gained in this course expands the previously acquired knowledge of weed vegetation in cultivated crops and enables the selection of appropriate weed control measures during agricultural production.

Syllabus:

Theory

Main biological properties of weed plants. Life forms of the weeds and ecological indices. The effect of the abiotic and biotic factors on the emergence and spreading of the weeds. The invasive and quarantine weed species. The types of competitive relations with the crops. The autoecology of weeds. Light and weeds. The effect of temperature on the weeds. Water regime of weed species. The effect of the air on the weeds. Soil and weeds. Biotic factors. Anthropogenic factors and weed plants. Joint action of ecological factors on the weeds. Weed synecology. Morphology, anatomy, histology, physiology and ecology of weed and cultivated species. Cultivated species phytocoenoses and their basic specifics. The methods for studying and mapping of phytocoenoses. Phytocoenology and agriculture. The basics of biocoenology. Morphology and organisation of the agrophytocoenosis. The distribution of plant communities. The overview of the agrophytocoenoses in our country. Important weed phytocoenoses in the row crops, grain crops, orchards, vineyards,ruderal, meadow and pasture phytocoenoses, as well as in the aquatic ecosystems.

Practice

The application of the methods related to the preparation of the doctoral thesis. The interpretation of the results obtained by utilizing different research methods.

Required Reading:

Konstantinović, B. (1999): Poznavanje i suzbijanje korova. Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad, Srbija.

Konstantinović, B., Bošković J. (2001): Biotehnologija u zaštiti bilja. Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad, Srbija.

Konstantinović, B. (2008): Korovi i njihovo suzbijanje. Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad,

Srbija.
Konstantinović, B. (2011): Osnovi herbologije i herbicidi. Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad, Srbija.
Konstantinović, B.I., Konstantinović, B. (2014): Osnovi herbologije i korovi urbanih sredina. Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad, Srbija.
Konstantinović, B., Popov, M., Samardžić, N. (2021): Osnovi herbologije. Praktikum, Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad, Srbija.

Weekly Contact Hours: 4+4	**Lectures: 60**	**Practical work: 60**

Teaching Methods:

Lectures - verbal-textual and demonstrative-illustrative methods. Writing the seminar paper from one of the foreseen areas of research.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation	10	written exam	
Practical work		oral exam	50
Preliminary exam(s)		…….	
Seminar(s)	40		