Course Unit Descriptor

Study Programme: Agronomy

Course Unit Title: Diagnostics of plant pathogenic fungi and fungi-like organisms

Course Unit Code: 19.AGR107

Name of Lecturer(s): full prof. Dragana B. Budakov, ass. prof. Marta Loc

Type and Level of Studies: Doctoral

Course Status (compulsory/elective): elective

Semester (winter/summer): winter

Language of instruction: English

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

Number of ECTS Allocated: 10

Prerequisites: -

Course Aims: Knowledge about techniques for diagnosis of plant pathogenic fungi and fungi-like organisms.

Learning Outcomes: Enabling student to independently work on detection and identification of phytopathogenic fungi and fungi-like organisms in scientific and other companies within the field of plant pathology.

Syllabus:

Theory

Diagnostics of plant pathogenic fungi and fungi-like organisms from seed, soil, plant material. Diagnostics of superparasites. Conventional and contemporary diagnostic methods. Protection and phytosanitary measures.

Practice

Student research work in research and introduction to various methods used for diagnostics, with the accent on up-to-date methods.

Required Reading:

George N. Agrios (2005): Plant pathology. 5th edition. Elsevir Academic Press.
S. B. Mathur and O. Kongsdal (2003): Common Laboratory Seed Health Testing Methods for Detecting Fungi, 1st Edition. The International Seed Testing Association.
J. C. Machado, D. S. Jaccoud Filho and C. J. Langerak (2002): Seed-borne Fungi: A Contribution to Routine Seed Health Analysis, 1st Edition. The International Seed Testing Association.
L. L. Singleton, J. D. Mihail, and C. M. Rush (1992): Methods for Research on Soilborne Phytopathogenic Fungi. The American Phytopathological Society.
Klaus H. Domsch, Walter Gams, and Traute-Heidi Anderson (2007): Compendium of Soil Fungi, 2nd Edition. The American Phytopathological Society.
C. R. Lane, P. Beales, K. J. D. Hughes (2012): Fungal Plant Pathogens. The American Phytopathological Society.

Weekly Contact Hours: 8	**Lectures: 3**	**Practical work: Student research work - 5**

Teaching Methods:

Interactive teaching

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation		written exam	
Practical work		oral exam	60
Seminar(s)	40		

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.