Course Unit Descriptor

Study Programme: PHYTOMEDICINE

Course Unit Title: MONITORING AND CONTROL OF BIRDS AND MAMMALS IN FOREST ECOSYSTEMS

Course Unit Code: 19.FT1019

Name of Lecturer(s): prof. Aleksandar Jurišić, PhD; prof. Aleksandra Petrović, PhD, doc. Ivana Ivanović, PhD

Type and Level of Studies: Undergraduate academic studies

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: 6

Prerequisites: none

Course Aims:
Educating students to monitor and determine bird and rodent species of importance for the forest ecosystem protection.

Learning Outcomes:

After passing the exam, students can practically identify and determine the most common species of birds and rodents and accurately identify damage to seeds and seedlings of forest vegetation.

Syllabus:

Theory
Taxonomy, biology and morphology of rodents, conditions for rodent population expansion, the most common species of mice, voles and birds in forest ecosystems. Rodent damage to underground and aboveground parts of plants, damage to forest plant seeds. Determining size and abundance of rodent populations in forest ecosystems, Bird and mammal control methods. Birds and mammals as vectors of zoonotic diseases, legislation in chemical control of rodents.
Practice
Absolute methods for determining the rodent populations, relative methods for determining the rodent populations, methods for determining the number of birds and rodents based on traces of their activity.

Required Reading:

Bonnefoy X., Kampen H., Sweeney K. (2008): Public Health Significance of Urban Pests. World Health Organization.
Đukić, N., Horvatović, A., Kataranovski, D., Maletin, S., Matavulj, M., Pujin, V., Sekulić, R., Jurišić, A. (2018): Poljoprivredna zoologija. Poljoprivredni fakultet, Univerzitet u Novom Sadu.
Jurišić, A., Ivanović, I., Pljaković-Pajnik, L., Vasić, V., Velojić, M., Drekić, M., Petrović, A., Meseldžija, M., Dabić, S., Potkonjak, A. (2021): Priručnik za kontrolu i suzbijanje glodara u šumarstvu: praktikum. Institut za nizijsko šumarstvo i životnu sredinu, Vojvodinašume, Petrovaradin.

Weekly Contact Hours:	**Lectures: 15**	**Practical work: 30**

Teaching Methods:

Lectures: presentations and consultations;
Practical classes: independent laboratory exercises with microscopic and macroscopic samples, calculations

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation	5	written exam	30
Practical work	5	oral exam	30
Preliminary exam(s)	30	…….	
Seminar(s)			

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