Study program: MAS, Agronomy

Elected area (module): Plant protection, Fruit growing and viticulture

Course title: Invasive insect species Subject code: MI 49

Lecturer: Prof Dr Snežana Tanasković, full professor

Language of instruction: English language

Број ЕСПБ: 6

Prerequisite: Entomology, Organic farming

Course objective: To provide theoretical knowledge and practical skills to use basic entomological knowledge in identifying and recognizing pathway of alochtonous insect species introduction and control or eradicate in area of introduction i.e. working on risk assessment for invasive insect spread and/or potential damage of introduced alien species

Learning outcomes

The acquired competence in the visual diagnosis of damage in the field resulting from the presence and activity of invasive alien insects. Students will be able to recommend rational control measures eradication and/or popilation control. Other important outcomes include individual student capability of using professional literature, and possibilities for engagement in field, research or scientific work in the topis of identification, monitoring, suppression, signaling appearance of alochtonous and ivasive species.

Course contents:

Theoretical teaching

Pathwas of introduction, choice of plant host, nutritive or reproductive, establishment and population spread. Monitoring and invasive species sampling. New tools for area od presence. Possibilites of control. Basic insecticidal a.i. and application in different production. Biological control.

Practical lab work

Individual and group interactive aprouch in adult /larva reckognition, and damage simptom on field and vegetable crops, fruit, vine and storage comodities by key for species identification. Use of invasive alien insect avaliable databases .

Recommended reading

Venette RC and Hutchison WD (2021)Invasive Insect Species: GlobalChallenges, Strategies &Opportunities.Front. Insect Sci. 1:650520 doi: 10.3389/finsc.2021.650520. Mitigating invasive insect species: eradication, long-term management, and the importance of sampling and monitoring, April 2023, DOI: 10.19103/AS.2022.0113.15 In book: Advances in monitoring of native and invasive insect pests of crops.

Hours of active teaching e	*Theoretical teaching***:** 2 × 15 = 30	**Practical lab work:** 2 × 15 = 30

Teaching methods:

Lectures are held in modernised classrooms using modern devices and teaching aids. Laboratory and practical sessions involve individual student work. Field work during the growing season provides practical training in trap placement, monitoring population dynamics, action thresholds and pest control measures. For term paper assignments, office hours are open for questions regarding the choice of topic and selection of relevant references.

Assessment (maximum points 100)

Examination requirements	Points поена	**Final exam**	points
Class participation	**10**	oral examination	
Practical sessions/tests	**10**	written examination	**40**
Term paper assignments/homework	**20**		
Project	**20**		
Other			