

FORM: Syllabus
Course description

General information		
Course Holder	Anita Pamuković, senior lecturer	
Course title	Basics of plant protection from pests	
Study programme	Karst Agriculture – Plant production	
Course status	Ordinary	
Year	II	
Evaluation in ECTS credits and forms of class conducting	ECTS coefficient of student workload	6
	Number of classes (L+P+S)	60 (30+30+0)

1. COURSE DESCRIPTION

1.1. Course objectives

Mastering knowledge about the role of pests in agricultural production, the basic factors influencing their development and reproduction, the basic methods and ways of their control, and the principles of integrated pest management. Acquisition of skills that enable students to perform work of protection of agricultural crops from pests on family agricultural holdings in the karst area as well as performing other tasks within the scope of work have tasks related to plant protection from pests (state administration, agricultural pharmacies, other professional services).

1.2. Terms for enrollment

Enrolled 2nd year

1.3. Expected learning outcomes related to the course

- know the basic characteristics of individual groups of pests, their morphological structure, diet and causing damage to agricultural crops, and the basic factors influencing their occurrence and development;
- know non-pesticide methods of pest protection;
- know the legislation on plant protection and be able to comply with the same in agriculture production;
- know the basic advantages and disadvantages of chemical methods of control, know the groups of zoocides and their main characteristics as well as selection criteria when making a decision on pest control;
- be able to determine the most important pests on vegetables (cabbage, leafy and root vegetables, bulbs, fruit vegetables and potatoes), fruit crops, stone fruit, citrus fruits, olives and apple) and grapes;
- based on the knowledge of life cycles and other characteristics of the most important pests to choose a suitable one monitoring method;

-know the critical numbers for individual pests, and based on the established critical numbers to be able choose the most suitable method and / or means of suppression;

1.4. Course content

1. Introduction - on the role of plant protection in agricultural production
2. Basics of entomology - morphology, anatomy, physiology, ecology and systematics of insects
3. Phytopharmacy - general part and zoocides
4. Placing on the market and methods of pesticide application
5. Pests on agricultural crops

1.5 Forms of class conducting

- | | |
|--|--|
| <input checked="" type="checkbox"/> lectures | <input checked="" type="checkbox"/> independent work |
| <input type="checkbox"/> seminars and workshops | <input checked="" type="checkbox"/> multimedia and the network |
| <input checked="" type="checkbox"/> practice | <input checked="" type="checkbox"/> laboratory |
| <input type="checkbox"/> e-learning | <input checked="" type="checkbox"/> mentor work |
| <input checked="" type="checkbox"/> field learning | <input type="checkbox"/> other _____ |

1.6. Comments

1.7. Student obligations Regular attendance of lectures and practice, tasks, colloquiums, exam preparation, exams

Students are required to attend 75% of lectures and 100% of exercises. In case of unjustified absence of 25% of hours in lectures, students will receive a seminar paper on a topic from the areas they missed in class.

1.8. Student evaluation method ¹

Attendance	0,50	Class activity	1,5	Seminar paper		Experimental work	
Written exam		Oral exam	2,01	Essay		Research	
Project		Written exam	1,99	Report		Practical work	
Portfolio							

1.9. Evaluation of the students' work during classes and in the final exam

The student has the right to take three tests of knowledge from the content of lectures and exercises. If the student has not passed all the colloquia, he / she takes a written exam. Grading of the colloquium and / or written part of the exam is done according to the following criteria: sufficient (2) 60-69%, good (3) 70-79%, very good (4) 80-89% and excellent (5) 90-100% . At each colloquium it is necessary to answer 60% of the questions correctly. The total points achieved in three colloquia are recognized as the points achieved in the final written part of the exam. Colloquium dates are agreed during the teaching process. The student does not have the possibility of exemption from the final (oral part) exam. The student is required to pass the final written exam if he / she has not achieved the minimum number of points in all colloquia. Grading of the written part of the exam is done according to the following criteria: sufficient (2) 60-69%, good (3) 70-79%, very good (4) 80-89% and excellent (5) 90-100%.

¹ IMPORTANT: Each Student Evaluation Method should be followed by a corresponding share in the ECTS credits for each activity so that the total number of ECTS points corresponds to the credit score of the subject. You can use blank fields for additional activities.

Students who take the colloquium or pass the written exam will have the right to take the oral exam. The oral exam will include questions from the entire teaching material, where students will have the opportunity to define, explain, give examples, analyze and connect the learned material. The final grade represents the sum of points that the student has achieved in the colloquia (3) or in the final exam. The number of points is converted into grade points.

1.10. Compulsory reading (at the time of application of the study program proposal)

- Written unauthorized lectures.

1.11. Additional reading (at the time of application of the study program proposal)

- Devorshak, C. 2012. Plant pest risk analysis: concepts and applications, CABI, 2012.

1.12. Number of copies of the compulsory reading units compared to the number of students currently attending the course

<i>Title</i>	<i>Number of copies</i>	<i>Number of students</i>
-	0	
-	0	

1.13. Quality assurance methods that ensure the acquisition of knowledge, skills and competencies

Student progress is continuously monitored during lectures and exercises. During the classes, students are introduced to possible problems related to the material of the course and their creativity and independent work is encouraged. Continuous conduct of colloquia or exams analyzes student performance. At the end of the semester, an evaluation of teachers and subjects is conducted by students (student surveys).

Students' comments on teaching are used to improve the quality of teaching. Information on the achieved learning outcomes is used for the preparation of self-evaluation of teachers and, if necessary, for changes and / or additions to the study program of the course, methods of work and student assessment.