	Course title:	URBAN Z	ZOOLOGY	
Course code	Subject Status	Semester	ECTS credits	Number of hours
	Obligatory	I	4	2P + 1V + 1L

Study program is organized: at Master studies, Study program Plant Production, field of study Plant Protection (duration 4 semesters, 120 ECTS credits, after completing undergraduate studies during 3 years and 180 ECTS credits)

Prerequisites other subjects (recommendation): There are no requirements for reporting and lecture of this course

Course aims: Introducing students to the basics of zoology in urban areas. Enabling students to assess the state of diversity of animal species in urban areas, their impact on humans and domestic animals. Considering the anthropogenic impact on urban populations of different animal species in order to enable students to make a decision on the manner and time of their control using pesticidal and non-pesticidal pest control measures.

The name of teacher and assistant: assis.prof Igor Pajović

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Method of Te	acning: Lectui	res, seminars, consultations, colloquiums and final exam.			
3371		WORK PLAN:			
Week and date					
Preliminary we	noles	Preparation and semester enrollment			
Premimary we	Lecture	Introduction to Urban zoology			
I Week	Exercises	Introduction to Orban zoology Introduction to laboratory work, use of keys for determination			
II Week Lecture		The concept and characteristics of urban habitats			
Exercises		Field work techniques, sampling			
III Week	Lecture	Characteristics of animal populations in urban habitats			
Exercises		Animal groups of importance for urban habitats: Protozoa, Plathelminthes, Nematodes			
	Exercises	Causes and consequences of urban habitats by various animal species important in communal,			
IV Week	Lecture	medical and veterinary hygiene			
	Exercises	Animal groups of importance for urban habitats: Annelida			
V Week	Lecture	Vector species and their relationship to humans and other organisms in urban areas			
* WCCK	Exercises	Animal groups of importance for urban habitats: Arthropoda			
	Lecture	Animals of importance in urban habitats from the Protozoa, Plathelminthes, Nematode and			
VI Week		Annelida groups. Colloquium I			
	Exercises	Animal groups of importance for urban habitats: Insecta			
VII Week	Lecture	Animals of importance in urban habitats from the group Arthropoda I part			
	Exercises	Animal groups of importance for urban habitats: Mollusca			
VIII Week	Lecture	Animals of importance in urban habitats from the groups Arthropoda II part and Mollusca			
	Exercises	Animal groups of importance for urban habitats: Pisces			
IX Week	Lecture.	Animals of importance in urban habitats from the Pisces, Amphibia and Reptilia groups.			
	Exercises	Animal groups of importance for urban habitats: Amphibia			
X Week	Lecture	Animals of importance in urban habitats from the Aves group.			
	Exercises	Animal groups of importance for urban habitats: Reptilia			
XI Week	Lecture	Animals of importance in urban habitats from the group Mammalia II colloquium			
	Exercises	Animal groups of importance for urban habitats: Aves			
XII Week	Lecture	Monitoring of potential pests and vectors			
	Exercises	Animal groups of importance for urban habitats: Mammalia			
XIII Week	Lecture	Possibilities of non - pesticidal control of potential pests and vectors			
ZEIII WOOK	Exercises	Methods of application of non-pesticide protection measures			
XIV Week	Lecture	Use of biocides and pesticides in communal, medical and veterinary hygiene			
	Exercises	Methods of application of biocides and pesticides			
XV	Lecture	Monitoring of protected species and maintenance of populations in urban areas			
	Exercises	Planning and monitoring of pests, vectors and protected species			
XVI		6 - 1			
XVII-					
XVIII-XXI-					
		-I			

Load students in hours:	
A week	During the semester:
$5 \times 40/30 = 6 \text{ hours } 40 \text{ min.}$	Teaching and the final exam: 6 h 40 min x 16 = 106 h 40 min.
Structure:	Necessary preparation (before semester administration,
2 hours lectures	enrollment and verification): 2 x 6 h 40 min = 13 h 20 min
2 hours exercises and laboratory	Total hours for the course: $5 \times 30 = 150$ hours
2 hours and 40 minutes	Additional work to prepare the corrective final exam, including the exam
individual work of student (preparation for	taking 0 – 30 hours
exercises, seminar work) including	Structure: 106 h 40 min (teaching) + 13 h 20 min (preparation) + 30 h
consultation	(additional work)

State of student during course: Students are required to attend lectures and exercises, seminar work, both tests and final exam.

Recommended literature:

- 1. Robinson W.H. (2005): Urban Insects and Arachnids: A Handbook of Urban Entomology. Cambridge University Press.
- 2. Bonnefoy X., Kampen H., Sweeney K. (2008): Public Health Significance of Urban Pests. World Health Organization. *Additional literature*:
- 3. Hickman, Jr. C.P., Roberts, L.S., Keen, S.L., Larson, A., I'Anson, H., Eisenhour, D.J. (2008): Integrated Principles Of Zoology, 14th Ed. McGraw-Hill, New York, USA.
- 4. Rajković D. i Kostić D. (1995): Praktikum iz poljoprivredne zoologije. Univerzitet u Novom Sadu, Prirodnomatematički fakultet, Institut za biologiju, Novi Sad.

assing grade is obtained if the cumulative accumulates at least

Learning outcomes:

After completing lectures, exercises and the exam student will be able to:

- 1. Uses theoretical and practical knowledge of zoology in urban areas
- 2. Evaluates the interactive impact of anthropogenic factors on populations of different animal species
- 3. Considers the risk to human and domestic animal health from vector animal species
- 4. Uses biocides and pesticides against vector species in communal, medical and veterinary hygiene
- 5. Uses the acquired knowledge in order to protect the environment from the communal-medical and veterinary aspect

Teacher who provided the information: assistant professor Igor Pajović

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