Karta opisu zajęć (sylabus)

Field or fields of study	Plant protection and phytosanitary control		
Name of the training module	Sanitary entomology		
Language of instruction	english		
Type of the training module	optional		
(obligatory/optional)			
Level of the training module	Full-time studies II level		
Year of study	stacjonarne		
Semester	I		
Number of ECTS credits with a	1		
division into contact/noncontact			
Title/degree, name and surname of the	3 (1,7/1,3)		
person in charge			
Unit offering the subject	Dr hab. Katarzyna Golan, associate prof.		
Aim of the module	Plant Protection Department		
Learning outcomes for the module are	The aim of the course is to provide pest species		
the description of the intended	related to the environment of human life, to know		
learning outcomes, skills and social	their biology, habitats and niches of their occurrence		
competences that a student should	Knowledge:		
achieve after the completion of the	1. He knows the pest species, their systematic,		
module should be provided.	methods of preventing their occurrence and control		
	2. He has general knowledge about the role and risks		
	of pests and their determinants and their functioning		
	in biocoenoses		
	Skills:		
	1. Can identify and determine the systematic		
	involvement of sanitary pests		
	2. Has the capacity to take measures to prevent and		
	control sanitary pests		
	Social competences:		
	1. He is aware of the importance of social,		
	professional and ethical responsibility for the health		
	of the human environment		
	2. Understands the need for continuous education,		
	working in a team, formulates opinions, participating		
D. II. I. I. III.	in the discussion		
Preliminary and additional	general biology; a course in some aspect of zoology,		
requirements	entomology Characteristics of the main concepts and tools of		
Contents of the training module	Characteristics of the main concepts and tasks of		
	sanitary entomology. Sanitary entomology human		
	history. Cockroaches - problems related to their		
	occurrence, nuisance and control. Body louse, fleas - the risk of direct and transmitted diseases.		
	Epidemiological role of flies, including mosquitoes.		
	Buds, horseflies, midges. Ants - different species coming from outside.		
	coming from outside.		

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	Hornets, wasps and other aculeata - a threat to human		
	health. Other allergenic and parasitic arthropods		
	(Bedbugs, Psocoptera, Argas sp. pigeons, ticks).		
Recommended and obligatory reading list	 Obligatory reading list: Service M. 2012. Medical Entomology for Students. ISBN: 9781139416085 Vector Control - Methods for Use by Individuals and Communities. World Health Organization. 1997. pp. 237–261. Pierce W. D. 2016. Sanitary Entomology PDF (https://booksinto.cf/articles/sanitary-entomology-pdf.html) Cockroaches-Unhygienic scavengers in human settlements. Recommended reading list Khoso FN, Wong SK, Chia SL and Lau WH 2015. Assessment of non-biting synanthropic flies associated with fresh markets. Journal of Entomology and Zoology Studies; 3 (1): 13-20. Xavier A. S., R. Barbosa R., Barbosa C. G., Carvalho Q. M. M. 2015. Bionomy of two flies of sanitary and forensic importance: Peckia (Sarcodexia) Lambens (Wiedemann) and Oxysarcodexia amorosa (Schiner) (Diptera, Sarcophagidae). Revista Brasileirade Entomologia 59; 229–233. Enayati, A., Hemingway, J. 2010. Malaria Management: Past, Present, and Future. Annual Review of Entomology, Vol. 55, Issue. 1, p. 569. Journal of Medical Entomology Oxford Academic https://academic.oup.com/jme/issue/58/6 Steward A. 2012. Zbrodnie robali. 		
	Wydawnictwo W.A.B.; 288.		
The intended forms/activities/teaching methods	Laboratory exercises - work cards for the current exercises, work with illustrative material, multimedia presentation, films themed team work, discussion, lecture - a multimedia presentation, video theme		
Methods of verification and documentation forms of the achieved learning outcomes	K1, K2 - pass writing, preparing a presentation given issues S1, S2, S3 - Written pass, Sc1, Sc2 - discussion, assessment of involvement and individual and team work of the student Forms of documenting the achieved learning outcomes: student presentations, student's diary, written assignments		
Elements and weights influencing the final grade	K1, K2 - pass writing, preparing a presentation given issues (60% of the assessment for passing the exercises). The grading scale in accordance with the Faculty's Instruction No. 1.0. S1, S2, S3 - Written pass, Sc1, Sc2 - discussion, assessment of involvement and		

	individual and team work of the student (40% of the			
	assessment for passing the exercises)			
Workload in activities with direct	Form of classes	Number of	ECTS	
participation of academic teachers		hours		
	CONTACT	•		
	Lectures	15	0,60	
	Courses	20	0,80	
	Consultations	3	0,12	
	Credit of multimedia presentations	2	0,08	
	Examination/credit	2	0,08	
	Total contact	42	1,68	
	NON-CONTACT			
	Preparation for courses	10	0,40	
	Preparation for	13	0,52	
	multimedia presentation			
	Preparation for credits	10	0,40	
	Total non-contact	33	1,32	
	Total ECTS	75	3,00	
Workload in activities with direct participation of academic teachers	 participation in lectures – 15 hrs participation in auditorial classes – 10 hrs participation in laboratory classes –10 hrs participation in consultation hours – 3 hrs credit of multimedia presentations –2 hrs participation at credits - 2 hrs Total 42 hours., which refers to 1.7 ECTS 			
Reference of module outcomes to	W1, W2 - K_W03			
field study outcomes	U1 - K_U01, K_U04			
	U2 - K_U02 U3 - K_U03			
	K1 - K_K03			
	K2 - K_K01			