Course name: INSECTS, SPIDERS AND OTHER INVERTEBRATES AND THEIR IMPACT ON HUMANS

ECTS	3
Course status	complementary
Course final assessment/evaluation of outcomes	completion with grade
Prerequisites	no prerequisites

Main field of study:

field of study name (capital letters) A G R I C U L T U R E		
Profile of study	General-academic	
The code of studies (education level)	SI/SM (bachelor / master)	
Semester of studies	spring	
Language of instruction	English	

Course offered by:

Name of faculty offering the course	Faculty of Agriculture and Economics
Name of department offering the course	Department of Microbiology and Biomonitoring
Course coordinator	prof. Dariusz Ropek

Learning outcomes of the course:

		Reference to			
Symbol of	Description of learning outcome	main field of			
outcome		study	discipline#		
		outcomes			
	KNOWLEDGE – student knows and/or understands:				
ISI.SM_W01	the importance of invertebrates in the environment and economy	RO2_W07	RR		
	SKILLS – student is able to				
	identify economically important groups of invertebrates and assess their importance in the environment				
ISI.SM_U01 ISI.SM_U02	determine the importance of individual groups of invertebrates for	RO2_U13 RO2_U16	RR		
101.011_002	humans	1102_010			
SOCIAL COMPETENCE- student is ready to:					
ISI.SM_K01	to constantly expand knowledge	RO2_K01	RR		

Teaching contents:

Lectures		15	hours
Topics of	Invertebrates - systematics and characteristics		
lectures	Arachnids - importance in the environment and in people's lives		
	Insects - systematics and general characteristics		
	Insects as a threat to humans		
	Insects important for agriculture and economy		
	Social insects		
	The use of invertebrates as a source of protein and in waste disposal		
	The use of insects in criminology		
	Myriapods and crustaceans - importance in the environment and in human li	fe	
	Molluscs - importance in the environment and in people's lives.		
	Snails - enemies or allies		

		f invertebrates observation, catching and conservation of invertebrates	
Accomplished le outcomes	earning	ISI.SM_W01	
Verification methand criteria of or	,	Lectures: written exam – test and problem questions. Share in final grade 60%)
assessment Classes		10 hou	<u></u>
Topics of classes	Insects - bio Myriapods a	biology and determination logy and determination ind crustaceans - biology and determination iology and determination	
Accomplished learning outcomes		DSP.SI_U01, DSP.SI_U02, DSP.SI_K01	
Verification methods, rules and criteria of outcome assessment		Attendance at at least 2 classes. Share in final grade 30%	
Field trip		5 hc	ours
Topics of field trip		Observation of selected groups of invertebrates in their natural environ	nent
Accomplished learning outcomes		ISI.SM_U01, ISI.SM_U02, ISI.SM_K01	
Verification methods, rules and criteria of outcome assessment		Assessment of the field trip report. Share in final grade 10%	

References:

References.	
Basic	Public Health Significance of Urban Pests Public Health Significance of Urban Pests. Xavier Bonnefoy Helge Kampen Kevin Sweeney. World Health Organization Urban pests and their public health significance. Chartered Institute of Environmental Health Chadwick Court 15 Hatfields London SE1 8DJ
Supplementary	Ropek D., Kacorzyk P. 2011. Biodiversity of soil fauna depending on vegetal cover and fertilization. Ecol. Chem. Eng. A, 18(8), 1117-1122.

Structure of learning

outcomes:					
Discipline: R – Agricultural science				3	ECTS*
Discipline: # (provide appropriate symbol - if the course relates to more than one academic discipline)					ECTS*
Structure of student a	ctivities:				
Contact hours		38	hours	1,5	ECTS*
including:	lectures	hours	hours		
-	Classes and seminars	hours	hours		
	consultations	hours	hours		
	participation in research	hours	hours		
	mandatory trainerships	hours	hours		
	Participation in examinations	hours	hours		
e-learning			hours		

Students own work	37	hours	1,5	ECTS*
Syllabus valid from the academic year 2024/2025				

Syllabus valid from the academic year 2024/2025 * where 10 hours of classes = 1 ECTC (in case of 15 h \rightarrow 2 ECTS) ** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes # academic discipline code: RZ - animal science and fishery, PB - biological sciences, etc.