M uu_uu	MOR N2_6/2
Field or fields of study	Plant Protection and Phytosanitary Control
Name of the training	Sanitary Entomology
module	
Language of instruction	English
Type of the training module	optional
(obligatory/optional)	
Level of the training module	2nd degree, part-time study
Year of study	
Semester	1
Number of ECTS credits with	3 (1/2)
a division into	
contact/noncontact	
Title/degree, name and	Dr hab. Katarzyna Golan
surname of the person in	
charge	
Unit offering the subject	Department of Plant Protection
Aim of the module	The aim of the course is to provide pest species related to the
	environment of human life, to know their biology, habitats and niches
Contents of the training	of their occurrence.
Contents of the training	Characteristics of the main concepts and tasks of sanitary entomology.
module-a compact description of approx. 100	Sanitary entomology human history. Cockroaches - problems related to their occurrence, nuisance and control. Body louse, fleas - the risk
words	of direct and transmitted diseases. Epidemiological role of flies,
Words	including mosquitoes. Buds, horseflies, midges. Ants - different
	species coming from outside. Hornets, wasps and other aculeata - a
	threat to human health. Other allergenic and parasitic arthropods
	(Bedbugs, Psocoptera, Argas sp. pigeons, ticks).
Recommended and	A. S.Xavier, R. R.Barbosa, C. G.Barbosa, M. M. de Carvalho 2015.
obligatory reading list	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
	Banaszak J. Wiśniewski H.1999. Podstawy ekologii. WSP Bydgoszcz
	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
	Pierce W. D. 2016. Sanitary Entomology PDF
	(https://booksinto.cf/articles/sanitary-entomology-pdf.html)
	Sandner H. 1976. Entomologia a ochrona środowiska. PWN W-wa.
	Boczek J. 2001. Człowiek i owady. Fundacja Rozwój SGGW.
	Piotrowski F. 1999. Stawonogi – sprzymierzeńcy i wrogowie człowieka
	i zwierząt. PWN.
	Žółtowski Z. 1956. Entomologia sanitarna. Wyd. MON, 3 tomy. Cockroaches-Unhygienic scavengers in human settlements
	http://www.who.int/water_sanitation_health/resources/vector288to30 1.pdf
The intended	laboratory exercises - work cards for the current exercises, work with
forms/activities/teaching	illustrative material, multimedia presentation, films themed team work,
methods	discussion,
modiodo	lecture - a multimedia presentation, video theme
	iostato a matamodia procentation, video triente