M uu_uu	MOR N2_27/3
Field or fields of study	Plant Protection and Phytosanitary Control
Name of the training module	Communities of insects
Language of instruction	english
Type of the training module	optional
(obligatory/optional)	
Level of the training module	Master's degree studies as a second-degree programme
Year of study	II
Semester	4
Number of ECTS credits with a	3 (1,2/1,8)
division into contact/noncontact	
Title/degree, name and surname	dr Izabela Kot
of the person in charge	
Unit offering the subject	Department of Plant Protection
Aim of the module	A student must be familiar with classification of social insects,
	their morphology, biology and principals of behavior
Contents of the training module-a	Lectures will contain the classification of social insects, evolution
compact description of approx.	of eusocial systems, the division of labor and the self-
100 words	organization of insect societies, adaptation to social lifes, the co-
	existence of social insects with other insects and plants,
	communication in communities of insects (identifying, sharing
	food and cleaning, recruitment, alarm and aggregation), the
	symbiosis of social insects, coexistence of social insects with
	other arthropods and plants. Classes will contain: morphology
	and development of eusocial insects - wasps (Vespidae),
	bumblebees (Bombus spp.), ants (Formicidae), termites
	(Isoptera), bees (Apidae), types and methods of nests
	construction, practical knowledge of the colonies functioning on
	the example of Apis mellifera (L.).
Recommended and obligatory	Wilson E. O. 1979. Społeczeństwa owadów [Communities of
reading list	insects]. PWN, Warszawa
	Wilson E. O. 2001. Owady społeczne. W: Socjobiologia [Communities of insects, in: Sociobiology]. Poznań: Zysk i S-ka
	Wydawnictwo s.c.
	Sandner H. 1989. Owady [Insects]. PWN Warszawa
The intended	Teaching methods: theory in the form of lectures prepared as
forms/activities/teaching methods	multimedia presentations; discussion; the student's own work;
	execution of the project; educational films