M uu_uu	MOR S2_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	2nd degree, full-time study
Year of study	II
Semester	3
Number of ECTS credits with a	3 (1,7/1,3)
division into contact/noncontact	
Title/degree, name and surname	dr Izabela Kot
of the person in charge	
Unit offering the subject	Department of Entomology
Contents of the training module-a compact description of approx. 100 words	Lectures will contain the classification of social insects, evolution of eusocial systems, the division of labor and the self-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 <i>Apis mellifera</i> (L.).
Recommended and obligatory reading list	Wilson E. O. 1979. Społeczeństwa owadów [Communities of 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