Title	**Ecology of hematophagic arthropods**
Code	ZDIB20
Study Program	Postgraduate Interdisciplinary University Programme Environment protection and Nature Conservation
Semester	III.
ECTS	5
Status	elective
Lecturer	full professor Stjepan Krčmar, PhD
Co-Lecturers	-
Requirements for Enrolment	-
Objectives	The task of the suggested course is to introduce the students to the systematics and vector role of the hematophagic arthropods in a functional-dynamical related form, which can be found in the nature.
Learning Outcomes	After the finished course student will be able: 1. To distinguish the morphological and anatomical characteristics of hematophagous arthropods. 2. To explain the biological features of hematophagous arthropods. 3. To define the developmental cycles of hematophagous arthropods. 4. To understand the vector role of hematophagous arthropods in spreading of infectious diseases agents. 5. To recognize the symptoms of some diseases caused by bacteria, rikettsiae, viruses and protozoa whose vectors are hematophagous arthropods. 6. To determine certain groups of hematophagous arthropods.

Connection between Learning Outcomes, Curricular and Student Activities

Student Activities	ECTS	Learning Outcomes	Curricular Activities	Methods of Assessment	Credits*	
					min	max
Presence in lectures with active participation	1	1-5	Lectures	Records	25	35
Presence in practice with active participation	1	6	Practice	Records, Evaluation	15	25
Preparation for written exam	1	1-6	Testing	Written exam	10	20
Preparation for final exam	2	1-6	Final exam	Oral exam	10	20
Total	**5**				**60**	**100**

Consultations	According to agreed procedure with students.		
Learning Activities	**Lectures**	**Seminars**	**Practice**
Hours	10	-	5
Contents / Teaching Units	1. Systematics of the hematophagic arthropods from subphylum: Cheliceriformes, Crustacea and Hexapoda. 2. Biological characteristics of hematophagic arthropods. 3. Developing cycle of hematophagic arthropods. 4. Vector role of the hematophagic arthropods in spreading infectious diseases agents. 5. Symptoms of some diseases caused by hematophagic arthropods. 6. Determination of some groups of hematophagic arthropods. 7. Sampling methods of some groups of hematophagic arthropods.		

Obligatory Literature	Lehane M. 2000. Biology of blood sucking insects. Chapman & Hall, London, 226 pp. Goddard J. 2003. Arthropods of Medical Importance . CRC Press LLC, 467 pp. Bowman, A.S. & Nuttal, A.P. 2009. Ticks Biology, Disease and Control. Cambridge UniversityP ress, 506 pp.
Recommended literature	Lane, R.P. and Crosskey, R.W. 1993. Medical Insects and Arachnids. Chapman & Hall, London, 722 pp. Price, P.W. 1997. Insect Ecology. John Wiley & Sons, Inc. New York, 874 pp.
Requirements for Aquiring Signature	Students are required to actively participate in teaching and practicum.
Type of Exam	The active participation of each students in teaching is valued with 60% of the final mark. Written exam accounts for 20% of the final mark, and the oral exam 20% of the final mark.
Lectures Language	Croatian
Quality Monitoring	Questionnaire