

Course Information Sheet

University: University of Presov	
Faculty: Faculty of Humanities and Natural Sciences	
Code: 2EKO/VEKPR/22	Title of Course: Large ecological practicum
Form of Study: Number of contact hours: per week: 3 per level/semester: independent fieldwork 40, processing of field protocols into electronic mapping software 40, elaboration of a report from a fieldwork 40 Study method: full-time	
Number of credits: 4	
Semester: 2 semester / 1st year of study	
Degree/Level: 2	
Prerequisites:	
Grading Policy (Assessment/Evaluation): Attendance at seminars is mandatory. The student can have a maximum of 1 day of absence justified on the basis of a medical certificate. In the absence of the student will receive substitute assignments. In case of unjustified non-participation or a large number of absences, the student will not be granted credits. The evaluation of the student's study results within the study subject will be performed by checking the field protocols (paper form), the electronic version of the protocols and the report from the intern with a minimum success rate of 50%. 1. During the semester, students independently map animals and plants in localities of their choice using an online application (eg Naturalist), records 35 plants, 35 animals, 15 lichens with complete locality data and determination. 2. Each student will create their own mapping project, kt. during the semester, he independently processes it into a presentation. 3. All students (groups of students, max 4 students) will bring the basic determination literature of the fauna and flora of Slovakia for the field internship, with which they will subsequently actively work. In each group there will be binoculars, a camera (or a mobile phone with a good camera) to document the findings and a laptop. Each student keeps their own field notebook (only for this purpose), understands the principle of field ecological record and its components. Active approach means: independent mapping of organisms, their determination (key determination and consultations if necessary), record keeping, creation of documentary materials (collection of samples, photographs, etc.). At the end of the internship, each student submits a collection of documentary photographs of organisms (designated, with a complete ecological record) from individual localities and habitats, consisting of: 20 plants, 20 invertebrates, 15 vertebrates. The student will receive a grade of "completer" if he/she actively participates in all parts of the field practice and draws up and submits written reports on the work performed.	
Aims and Objectives: By completing the course, the student will demonstrate skills, knowledge and skills related to field work in researching the ecology of animals, plants and ecosystems with an overlap in applied ecological and environmental sciences and related natural sciences that are relevant to the study of living nature as an integrated whole, ecology, conservation and use of nature. The student demonstrates the ability to: - be familiar with the methods of studying animal and plant ecology and apply appropriate methods in practice, - prepare a basic design for sampling populations and communities in selected typical habitats in order to answer specific ecological questions, - evaluate, measure, analyze and record the underlying environmental variables in	

different habitats, - master and apply basic methods of material and data collection in the field, - know the specifics of the ecology of organisms of basic habitat types, - determine the common representatives of animals and plants, their ecological requirements and adaptations to the environment, - explain the importance of specific ecological groups and taxa in nature and in relation to humans, - use knowledge of animal ecology in solving practical ecological tasks and problems. After completing the course, students have the ability to further their education and are able to obtain and interpret new information in the field of practical methods and field work in the field of ecology.

Syllabus/Indicative Content:

1. Sampling design and experimental design in field conditions.
2. Mapping of organisms in electronic application.
3. Obtaining data on the environment in terrestrial and aquatic habitats.
4. Collection of material samples in the mountain environment. Determination and autecology of characteristic species.
5. Collection of animal material in forest habitats. Determination and autecology of characteristic species.
6. Collection of animal material in specific aquatic habitats. Determination and autecology of characteristic species.

Suggested readings:

BUCHAR, J. - DUCHÁČ, V. - HŮRKA, K. - LELLÁK, J.: *Klíč k určování bezobratlých*. Scientia, PRAHA, 1995.

HROMÁDKO M. a kol. 1992,3,8. *Příručka k určování našich pěvců, část 1.-3.* Hradec Králové.

JANDA J. a ŘEPA P. 1986. *Metody kvantitativního výzkumu v ornitologii*. SZN. Praha
 GAISLER, J. – ROZKOŠNÝ, R., 1981: *Terénní práce ze zoologie (Field course of zoology)*. 2. vyd. Brno : Masarykova univerzita. 317 pp.

HAUER, F.R. - LAMBERTI G.A. (eds.): *Methods in Stream Ecology (Second Edition)*. ELSEVIER, 2007

HENDERSON, P.A.: *Practical Methods in Ecology*. Wiley-Blackwell, 2003.

Language of Instruction: Slovak language, English

Other course information:

Grading history

A	B	C	D	E	FX
		c	d	e	f

Lecturer/Instructor:

doc. Mgr. Martin Hromada, PhD., cvičiaci, vedúci cvičenia

Ing. Jozef Oboňa, PhD., cvičiaci, vedúci cvičenia

PaedDr. Jakub Fedorčák, PhD., cvičiaci, vedúci cvičenia

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Approved by: