Course Information Sheet

University: *Prešov University of Prešov*	
Faculty: *Faculty of humanities and natural sciences*	
Code: *2EKO/PODEK/15*	**Title of Course:** *Soil ecology*
Form of Study: *Present, lecture, seminar* **Number of contact hours:** **per week:** *1h + 1h* **per level/semester:** *lectures 10, seminars 10, preparing of seminar work 20, self work and study 50.*	
Number of credits: *3*	
Semester: *2. semester / 1. year of study*	
Degree/Level: *2*	
Prerequisities: ---	
Grading Policy (Assessment/Evaluation): *Active participation in seminars is mandatory. A student can have a maximum of 1 absence justified on the basis of a medical certificate. 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 take place:* *final test with a minimum success rate of 50% and preparing of seminar work according to instructions.* *The success criteria (percentage of results) for the classification levels are as follows:* *a) A - 100.00 - 90.00%* *b) B - 89.99 - 80.00%* *c) C - 79.99 - 70.00%* *d) D - 69.99 - 60.00%* *e) E - 59.99 - 50.00%* *f) FX - 49.99 and less%*	
Aims and Objectives: *Student will obtain survey about way of soil ecosystem functioning, soil material and energy flow, soil organisms communities, their structure, interactions, and how they contribute to the soil ecosystem functioning.*	
Syllabus/Indicative Content: 1. Soil ecology as an interdisciplinary science, actural trends in research. 2. Properties and characteristics of the soil ecosystem 3. Soil organisms. 4. Soil microbial biomass. 5. Soil enzymes. 6. Soil food chain. 7. Cycle of elements in the soil ecosystem. Biomass degradation, hummification. 8. Methods of studying the decomposition of organic matter in the soil ecosystem. 9. Mycorysis. 10. Soil-plant interactions. 11. Soil-fauna interactions, soil fauna vs. pedogenic and degradation processes, soil fauna vs. nutrients and energy cycle 12. Soil biocenoses of different types of ecosystems.	

13. Threats and soil protection.

Suggested readings:

Janguage of Instruction: slovak, english

Grading history

A	B	C	D	E	FX
a	b	c	d	e	f

Lecturer/Instructor: *RNDr. Beáta Baranová, PhD., Ing. Lenka Bobuľská, PhD.*

Last update: 9. mája 2022

Approved by: