

Table 5.2 Course specification

Type and level of studies: Bachelor			
Course name: Soil Degradation			
Course status: elective			
Number of ECTS credits: 6			
Requirement: none			
Course aim Introduction to the basic morphological, physical, chemical and biological characteristics of soil. Understanding the basic causes of soil degradation and enabling students to determine the extent of soil degradation.			
Course outcome. Students should be able to define and specify the main properties of soil, define and explain the stages of degradation of the soil, apply their knowledge for or remediation and sustainable management of soil.			
Course content <i>Theory.</i> Basic soil characteristics (morphological, physical, chemical and biological). Soil degradation (term, causes, types and sources of pollution; impact of agriculture on soil; soil compaction; impact of irrigation on soil; impact of air pollution on soil; landslides; soil pollution by heavy metals and radionuclides). Soil protection (soil management and remediation). <i>Practical classes:</i> Audio-visual methods will cover contents related to the concept, causes, types and sources of soil pollution, as well as soil degradation by chemical, physical and biological processes. Computational exercises related to the relevant area.			
Literature 1. S. Rončević, M.Kragulj Isakovski: Materijal sa predavanja, dostupno preko moodle servisa Prirodno-matematičkog fakulteta u Novom Sadu. 2. N. Miljković: Osnovi pedologije, Prirodno-matematički fakultet, Novi Sad, 1996. 3. M. Jakovljević i M. Pantović: Hemija zemljišta i voda, Naučna knjiga, Beograd, 1991 4. D. Veselinović, I. Gržetić, Š. Đarmati, D. Marković: Stanja i procesi u životnoj sredini, Fakultet za fizičku hemiju, Beograd, 1995, str.106-125. 5. P. Sekulić, R. Kastori, V. Hadžić: Zaštita zemljišta od degradacije, Naučni institut za ratarstvo i povrtarstvo, Novi Sad, 2003. 6. G. Schwedt: The essential guide to environmental chemistry, Part 4 Soil, John Wiley and Sons, LTD, Chichester-New York-Weinheim-Brisbane-Singapore-Toronto (prevod), 2001. V. Hadžić, M. Belić, LJ. Nešić: Praktikum iz pedologije, Poljoprivredni fakultet, Novi Sad, 2004. <i>Additional literature</i> 1. R.E. White: Principles and practice of soil science, 4 th edition, Blackwell Publishing, 2006.			
Number of classes of active teaching 5 (75)			Other classes
Lectures: 3 (45)	Practice: 2 (30)	OFT:	SRW:
Teaching methods. Lectures, computational and laboratory exercises, colloquium and consultations.			
Assessment of knowledge (maximum of 100 points)			
Pre-exam obligations	Points	Final exam	points
activity during lecture classes	5	written exam	30
practical teaching	10	oral exam	30
colloquia	15		
seminar	10		