



UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE
SUBJECT DESCRIPTION

Form SP2

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Subject code: FG-206-4		Subject name: PEDOLOGY	
Ciklus: I	Year: II	Semester: IV	ECTS credits: 6
Status: mandatory		Contact hours: 60 Lectures: 30 Practical courses: 30	
Assigned professors and assistants:		Lecturers and assistants selected for the field to which the course belongs	
Prerequisites:		/	
Subject objectives:		Educating students to independently interpret the origin and evolution of soil as a natural-historical body as a special sphere in which various pedogenetic processes take place. Through the course students will be able to recognize the importance of soil in the ecosystem, the role of soil in the creation of organic matter in agriculture and forestry, ecological - regulatory role, source of genetic wealth and geodiversity protection, the role of soil in landscape design and appearance, in archaeological research and spatial distribution of soils in the world and Bosnia and Herzegovina.	
Teaching units:		1.Introduction 2.Soil and its function in ecosystem 3.Soil as threephase system 4.Mineral component of the soil; Petrogenic minerals; Rocks 5.Genesis, composition and division of humus; Underground organisms 6.Soil physics 7.Soil chemistry 8.Partial exam 9.Morphologic propeties of soil 10.Pedogenic factors and processes 11.Soil classification 12.Geographic distribution of soils in the World 13.National soil classification in Bosnia and Herzegovina 14.Pedogeographical characteristics of Bosnia and Herzegovina 15.Use value, degradation and soil protection	



Learning outcomes:	Knowledge: The student will be able to explain the origin of soil, its composition and properties, explain the role and importance of soil Skills: The student will be able to demonstrate the effect of physical, chemical and biological processes on the origin and development of the pedosphere, the student will be able to classify soils, interpret its spatial distribution in the world and Bosnia and Herzegovina. Competencies: The student will be able to explains the composition of the soil and recognizes the types of soil, to independently analyze cartographic attachments and prepare graphic attachments																					
Teaching methods:	Lectures are theoretical and practical based on introducing students to the origin, composition and types of soils, differentiation amongst types of soils as well as the content and methods of making a pedological map.																					
Knowledge testing methods with grading structure ¹:	Knowledge assessment - criteria: Lecture and exercise attendance: maximum 5 - minimum 3 points Activity in class: maximum 5 - minimum 3 points Seminar paper: maximum 10 - minimum 5 points Test: maximum 40 - minimum 22 points Final exam: maximum 40 - minimum 22 points Total 100 points, passing requirement: 55 points minimum. Assessment: <table><tr><th><i>Grade</i></th><th><i>ECTS grade</i></th><th><i>Points scale</i></th></tr><tr><td>10</td><td>(A) excellent</td><td>95 – 100</td></tr><tr><td>9</td><td>(B) very good</td><td>85 – 94</td></tr><tr><td>8</td><td>(C) good</td><td>75 - 84</td></tr><tr><td>7</td><td>(D) satisfactory</td><td>66 – 74</td></tr><tr><td>6</td><td>(E) sufficient</td><td>55 – 64</td></tr><tr><td>5</td><td>(F, FX) insufficient</td><td>< 55</td></tr></table>	<i>Grade</i>	<i>ECTS grade</i>	<i>Points scale</i>	10	(A) excellent	95 – 100	9	(B) very good	85 – 94	8	(C) good	75 - 84	7	(D) satisfactory	66 – 74	6	(E) sufficient	55 – 64	5	(F, FX) insufficient	< 55
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10	(A) excellent	95 – 100																				
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8	(C) good	75 - 84																				
7	(D) satisfactory	66 – 74																				
6	(E) sufficient	55 – 64																				
5	(F, FX) insufficient	< 55																				

¹ The structure of points and point criteria for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught in accordance with Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton



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Literature²:

MANDATORY:

Resulović, H., Čustović, H., 2002: Pedologija, Univerzitet u Sarajevu, Sarajevo

Drešković, N., Mirić, R., 2017: Regionalna geografija Bosne i Hercegovine I, Univerzitet u Sarajevu, Sarajevo

RECOMMENDED:

Resulović, H., Čustović, H., Čengić, I. 2008: Sistematika tla/zemljišta, Univerzitet u Sarajevu

Škorić, A. 1986: Postanak, razvoj i sistematika tla, Zagreb.

Čustović, H., Pedogeografija – Skripta za internu upotrebu studenata odsjeka za geografiju Prirodno-matematičkog fakulteta.

² The Senate of the higher education institution as an institution or the council of the organizational unit of the higher education institution as a public institution determines mandatory and recommended textbooks and manuals, as well as other recommended literature on the basis of which exams are prepared by a special decision which must be published on its website before the beginning of the academic year in accordance with Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton