BACHELOR 'S PROGRAMME **2**ND YEAR OF STUDY, 1ST SEMESTER

COURSE TITLE	PEDOGEOGRAPHY	
COURSE CODE	JG2302	
COURSE TYPE	full attendance/ tutorial	
COURSE LEVEL	1 st cycle (bachelor's degree)	
YEAR OF STUDY, SEMESTER	2 nd year of study, 1 st semester	
NUMBER OF ECTS CREDITS	5	
NUMBER OF HOURS PER WEEK	4 (2 lecture hours + 2 seminar hours)	
NAME OF LECTURE HOLDER	Lecturer Ionut VASILINIUC	
NAME OF SEMINAR HOLDER	Lecturer Ionut VASILINIUC	
Prereouisites	Advanced level of English	
A GENERAL AND COURSE-SE	ECIFIC COMPETENCES	
General competences:		
→ Acquiring the adequate professional and transversal competencies, according to the specific requirements of the subject and the qualifications listed in the National Index of Higher Education Qualifications (RNCIS) for Geography of Tourism		
Course-specific competences:		
→ Explain the variability of soil-forming factors (rock, landforms, climate etc.) on Earth and the way in which they contribute to soil formation		
→ Define and expl formation of the	ain, in correlation to the soil-forming factors, the processes that contribute to the soil profile	
→ Describe soil co in the geosyster	mponents and argument soil properties. Understand soil functions and their role	
B LEARNING OUTCOMES		
→ Classify soil types and understand the organization of soil classifications systems (SRTS 2012, WRB-SR 2007).		
\rightarrow Describe soil characteristics at world level.		
\rightarrow Identify the main types of soil horizons.		
→ Recognize the main morphological properties of soil horizons (colour, structure, texture etc.).		
→ Use the field tool kit and the Eijkeikamp set for soil sampling		
LECTURE CONTENT		
Soil forming factors (rock, landforms).		
Soil forming factors (the hydric and biotic components).		
Soil forming factors (anthropic influence, time and transport factors).		
Soil forming processes (accumulations, losses).		
Soil components and their properties (the solid component, the mineral component, soil texture)		
Soil components and their properties (the liquid and gaseous components).		
Soil components and their properties (organic matter, organisms, the role of soil fauna, humus and		
organic carbon).		
Chemical soil properties (cationic exchange capacity, soil reaction).		
World soil resources		
Soil resources of Romania		
D RECOMMENDED READING	OR LECTURES	
1. Secu C. V., Rusu C	, 2007, Geografia solurilor cu elemente de pedologie, Edit. Univ. Al. I. Cuza, Iaşi,	
2. Secu C. V., Patriche C. V., 2007, Solurile lumil. Clasificare, raspandire, caracteristici, Edit. Terra Nostra lasi 317 p		
3. IUSS Working Group WRB, 2006, World reference base for soil resources 2006.World Soil Resources		
Reports No. 103, FAO, Rome.		
4. Florea N., Munteanu 206 p.	I. și colab, 2012, Sistemul Român de Taxonomie a Solurilor, Edit. Sitech, Craiova	
F SEMINAR CONTENT		
Main soil horizons (acc	rding to RSTS 2012 - O T Am Ao and Au borizons)	
Main soil horizons (acc	rding to RSTS, 2012 - Elv. Fa. Es. By. Bt. Bs. Bhs)	

Main soil horizons (according to RSTS, 2012 - C and R) and association horizons (Ame, Btna, sa, sc,		
Association horizons (G, W, Bzv), special diagnostic horizons (Aho) and diagnostic parent materials		
Soil colour		
Soil structure		
Soil neoformations and inclusions		
Evaluation of soil texture and skeleton content Plasticity adesivity pores crusts		
Soil water		
The soil profile (evaluating soil forming factors, separation of soil horizons, noting morphological indicators, soil sampling, soil profile sheet).		
Soil sampling and the analysis of the soil profile (equipment and techniques, field activity).		
Soil sampling and the anal	ysis of the soil profile (equipment and techniques, field activity).	
F RECOMMENDED READING FOR SEMINARS		
1. Kusu C. (1998) – Fizica, chimia și biologia solului. Ed. UAIC 2. Secu C.V. Patriche C.V. (2007) – Solurile Iumii, Clasificare, răspândire, coroctoristici, Ed. Torro		
Nostra, Jasi		
3. FAO, 2006, <i>Guidelines for soil description</i> , Fourth edition, FAO, Rome.		
4. White Robert Edwin, 1997, Principles and practice of soil science: the soil as a natural resource, (cotă la BCL Filiala de Geografie III-16 899)		
5. Gerrard, J., 2000, <i>Fundamentals of Soil</i> , Routlege Fundamentals of Physical Geography, London.		
6. Blume Hans-Peter et al. (2016). Scheffer/Schachtschabel Soil Science, Springer-Verlag Berlin		
Heidelberg		
http://en.eijkeikamp.com/products/soil/soil-drilling-and-sampling/hand-auger-equipment/Auger-set-for-		
C EDUCATION CTVLE		
G EDUCATION STYLE		
LEARNING AND TEACHING METHODS	Lecture, didactic explanation, demonstration, systematic observation,	
ASSESSMENT METHODS	Examination + Seminar Grades	
LANGUAGE OF INSTRUCTION	English	