

1. GENERAL INFORMATION					
Study programme title	Graduate study of Geology & Geological Engineering				
Course title	Methods in Sedimentary Petrology		Semester	Summer	
Teacher	Assist. Prof. Uroš Barudžija, PhD		Course code	27251	
Course type	<input type="checkbox"/> obligatory <input checked="" type="checkbox"/> elective		ECTS	3	
Location	P6 V315				
Language	<input checked="" type="checkbox"/> Croatian <input checked="" type="checkbox"/> English				
Class type	Weekly hours	Teaching staff	Office hours	Room	E-mail
Class	1	Assistant Professor Uroš Barudžija, Ph D	Thursday, 10.00-12.00	P6 312	uros.barudzija@rgn.hr
Practice	1,5	Duje Smirčić, Ph D	Thursday, 12.00-14.00	P6 312	duje.smircic@rgn.hr
Field lecture	0,5				
E-learning level	2	Percentage of on-line class (max. 20%)		10	
2. COURSE DESCRIPTION					
Course aims	Introduction to and selective application of analytical methods in the investigation of lithified and non-lithified sediments and soils. Mastery of techniques and skills in investigation of sediments, sample preparation, quantitative and qualitative estimation of mineral composition, granulometry and morphometrics. Mastery of techniques and skills in interpretation, classification and presentation of the results, acquired by the methods of investigation of sediments.				
Requirements for applicants	Sedimentary petrology course - passed exam. Interest in sediments research.				
Programme level learning outcomes with course contribution					
Expected course level learning outcomes (4-10 outcomes)	<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. - identify and describe various analytical methods for the investigation of lithified and non-lithified sediments and soils. 2. - define and describe, in the field and in the laboratory, various types of lithified and non-lithified sediments and soils. 3. - define the nomenclature of lithified and non-lithified sediments and soils. 4. - present the results of the investigation of lithified and non-lithified sediments and soils. 				

	<ol style="list-style-type: none"> 5. - explain formation processes for lithified and non-lithified sediments and soils. 6. - explain and summarize the basic methods for investigation of lithified and non-lithified sediments and soils. 7. - define and conduct the project for field and laboratory investigation of lithified and non-lithified sediments and soils. 		
Course contents by individual lessons			
Class		Practice	
Students' obligations	Students are obligated to regularly attend the lectures, laboratory exercises and field work, and to submit completed project tasks within a given deadline. Basic precondition to start a project task is individual theoretical preparation (adoption of all available theoretical knowledges and regulations, which will be checked by the instructors), immediately before start performing each particular project task.		
Students' work track (indicate share in ECTS points for each activity so that overall ECTS number corresponds to class credits score):	Class attendance	0,5	Research
	Project		Report
	Colloquium		Seminar paper
	Practical work	0,75	Oral exam
	Written exam		(Extra)
Type of exam, grades and evaluation of students work during class and on final exam	Basic preconditions for the students to attend the oral exam are completed all the project tasks, according to the regulations and within a given deadlines. All tasks (results and interpretations) must be also evaluated positively (at least with the mark 2) by the instructor. A total of 50% of the student's final grade for the course is the result of the individual and collective work (in a group(s)) within the exercises during semester, and 50% is the result of the oral exam.		
Mandatory literature (available in the Library and via other media)	<i>Methods in Sedimentary Petrology</i> : learning materials attached in the e-course at LDS Merlin. (in Croatian and English) Tišljar, J. (1994): Sedimentne stijene (<i>Sedimentary Rocks</i>). Manualia universitatis studiorum Zagrabiensis, Školska knjiga, Zagreb, 422pp. (in Croatian) (p. 11-282)		
Additional literature (at the moment of study program proposition application)	Müller, G. (1967): <i>Methods in Sedimentary Petrology</i> . Hafner Publ. Co., London, 283pp. Tucker, M.E. (1988): <i>Techniques in Sedimentology</i> , -Blackwell Sci. Publ., Oxford, 391pp. Collinson, J.D. & Thompson, D.B. (1989): <i>Sedimentary Structures</i> . - Unwin Hyman, London, 199pp. Stow, D.A.V. (2005): <i>Sedimentary Rocks in the Field-A Colour Guide</i> . - Manson Publ., London, 318pp. Coe, A.L. (2010): <i>Geological Field Techniques</i> . -Wiley-Blackwell & The Open University, Milton Keynes, 323pp.		



Examination terms	
Other	

