



University of
Zagreb



University of Zagreb
FACULTY OF MINING,
GEOLOGY AND PETROLEUM
ENGINEERING



1. GENERAL INFORMATION			
1.1. Course teacher	Associate Professor Vladislav Brkić, PhD; Assistant Professor Karolina Novak Mavar, PhD		1.6. Year of the study
1.2. Name of the course	Decommissioning of oil and gas facilities		1.7. ECTS credits
1.3. Associate teachers	-		1.8. Type of instruction (number of hours L + E + S + e-learning)
1.4. Study programme (undergraduate, graduate, integrated)	graduate		1.9. Expected enrolment in the course
1.5. Status of the course	<input type="checkbox"/> mandatory	<input checked="" type="checkbox"/> elective	1.10. Level of application of e-learning (level 1, 2, 3), percentage of online instruction (max. 20%)
2. COUSE DESCRIPTION			
2.1. Course objectives	To provide students with knowledge, skills and expertise in the oil and gas exploration and production (in further text: O&G E&P) facilities decommissioning process, covering technical aspects, project management, legal requirements, and the required measures in the field of health, safety, and environmental protection.		
2.2. Enrolment requirements and/or entry competences required for the course	-		
2.3. Learning outcomes at the level of the programme to which the course contributes	Independently solve complex engineering problems in petroleum engineering and geoenery engineering; Compare specific procedures and processes in petroleum engineering and geoenery engineering; Plan the methods and procedures for avoiding or minimizing environmental impact of petroleum engineering and geoenery engineering activities.		
2.4. Expected learning outcomes at the level of the course (3 to 10 learning outcomes)	Select the best decommissioning option for a particular installation; Carry out decommissioning process optimization through consideration the complex interactions between, cost, technical feasibility, environmental and societal considerations and safety; Create a project solution for any oil and gas E&P decommissioning project.		
2.5. Course content (syllabus)	Criteria for wells and other oil and gas facilities decommission; Requirements and recommendations of international organizations in the field of decommissioning; National legislation in the field of decommissioning; Decommissioning methods regarding onshore/offshore oil and gas exploration and production facilities; Safety measures, which exclude the occurrence of danger to		

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	people, property and the environment; Soil sampling and analyses; Preparation of agroecological study; Soil and groundwater monitoring in line with the measures defined by the Decisions on environmental acceptability.								
2.6. Format of instruction:	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> online in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input checked="" type="checkbox"/> independent assignments <input type="checkbox"/> multimedia and the internet <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			2.7. Comments:		
2.8. Student responsibilities	Attendance at lectures (80%), prepared and presented seminar paper.								
2.9. Monitoring student work	Class attendance	YES		Research		NO	Oral exam		NO
	Experimental work		NO	Report		NO	Seminar presentation	YES	
	Essay		NO	Seminar paper	YES				
	Preliminary exam		NO	Practical work		NO			
	Project		NO	Written exam		NO	ECTS credits (total)		4
2.10. Required literature (available in the library and/or via other media)	Title						Number of copies in the library	Availability via other media	
	Hammerson, M. (2016.): <i>Oil and Gas Decommissioning: Law, Policy and Comparative Practice.</i>						NO	YES	
	Clifford Jones, J. (2017.): <i>Offshore Oil and Gas Decommissioning</i> , Bookboon.						NO	YES	
2.11. Optional literature	SPE Webinars; OnePetro articles, materials from PESS 2018-2022.								
2.12. Other (as the proposer wishes to add)									