

Faculty of Civil Engineering / / TECHNOLOGY OF STRUCTURES RECONSTRUCTION

Course:	TECHNOLOGY OF STRUCTURES RECONSTRUCTION								
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exection cises+Laboratory)					
12008	Mandatory	2	6	3+1+1					
Programs									
Prerequisites	No conditionality								
Aims	Acquiring knowledge in the field of technology of reconstruction, retrofitting and strengthening of facilities. Introducing students to the technology of reconstruction, retrofitting and strengthening of buildings, principles, methods and ways of using materials, equipment and machines for the execution of technological processes during reconstruction, retrofitting and strengthening.								
Learning outcomes	Acquisition of knowledge in the field of technology of reconstruction of facilities and production processes which are realized, first of all, construction works on reconstruction. Training for the analysis of previously designed reconstruction technologies, consideration of their most important technological characteristics, and evaluation of these variant solutions and selection of the most suitable for the realization of the task.								
Lecturer / Teaching assistant	Dr Jelena Pejovic, professor Mr Maja Laušević Odalović, teaching assistant								
Methodology	Lectures, exercises, semester works, fieldwork								
Plan and program of work									
Preparing week	Preparation and registration of the semester								
I week lectures	Basics of facility reconstruction technologies. Basic concepts and methodology of reconstruction technology analysis. Analysis of technological processes.								
I week exercises	Basics of facility reconstruction technologies. Basic concepts and methodology of reconstruction technology analysis. Analysis of technological processes.								
II week lectures	Reconstruction technology of existing buildings. Types of reconstruction: Upgrading, strengthening, reconstruction of a damaged buildings.								
II week exercises	Reconstruction technology of existing buildings. Types of reconstruction: Upgrading, strengthening, reconstruction of a damaged buildings.								
III week lectures	Technology of reconstruction, retrofitting and strengthening of stone and masonry buildings. Rehabilitation of earthquake-damaged buildings.								
III week exercises	Technology of reconstruction, retrofitting and strengthening of stone and masonry buildings. Rehabilitation of earthquake-damaged buildings.								
IV week lectures	Technology of reconstruction, retrofitting and strengthening of wooden buildings.								
IV week exercises	Technology of reconstruction, retrofitting and strengthening of wooden buildings.								
V week lectures	Technology of reconstruction, retrofitting and strengthening of high-rise buildings.								
V week exercises	Technology of reconstruction, retrofitting and strengthening of high-rise buildings.								
VI week lectures	Technology of reconstruction, retrofitting and strengthening of industrial facilities. Rehabilitation of buildings damaged due to the aggressive action of the environment. Rehabilitation of buildings damaged due to atmospheric influences.								
VI week exercises	Technology of reconstruction, retrofitting and strengthening of industrial facilities. Rehabilitation of buildings damaged due to the aggressive action of the environment. Rehabilitation of buildings damaged due to atmospheric influences.								
VII week lectures	Technology of reconstruction, retrofitting and strengthening of bridges.								
VII week exercises	Technology of reconstruc	tion, retrofitting and st	rengthening of bridges.						
VIII week lectures	Testing of knowledge								
VIII week exercises	Testing of knowledge								
IX week lectures	Technology of reconstruction, retrofitting and strengthening of buildings on roads.								
IX week exercises	Technology of reconstruction, retrofitting and strengthening of buildings on roads.								
X week lectures	Technology of reconstruction, retrofitting and strengthening of hydro-power facilities.								
X week exercises	Technology of reconstruction, retrofitting and strengthening of hydro-power facilities.								



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XI week lect	ures	Technology of reconstruction, retrofitting and strengthening of underground structures.								
XI week exe	rcises	Technology of reconstruction, retrofitting and strengthening of underground structures.								
XII week lect	tures	Rehabilitation of the terrain. Rehabilitation of unstable terrain on which the facility was founded. Landslide remediation. Rehabilitation of slopes and cuts.								
XII week exe	ercises	Rehabilitation of the terrain. Rehabilitation of unstable terrain on which the facility was founded. Landslide remediation. Rehabilitation of slopes and cuts.								
XIII week lec	tures	Modern examples of reconstruction technology in practice. Development of new materials for rehabilitation and strengthening. Trends and perspectives. Special regulations governing reconstructions.								
XIII week ex	ercises	Modern examples of reconstruction technology in practice. Development of new materials for rehabilitation and strengthening. Trends and perspectives. Special regulations governing reconstructions.								
XIV week led	tures	Planning the construction of reconstruction, rehabilitation and strengthening of facilities.								
XIV week ex	ercises	Planning the construction of reconstruction, rehabilitation and strengthening of facilities.								
XV week lec	tures	Testing of knowledge.								
XV week exe	ercises	Testing of knowledge.								
Student wo	orkload	Weekly 6 credits $x 40/30 = 8.0$ hours Structure: 3 hours of lectures 2 hours of exercise 3 hours of independent work, including consultations								
Per week				Per semester						
6 credits x 40/30=8 hours and 0 minuts 3 sat(a) theoretical classes 1 sat(a) practical classes 1 excercises 3 hour(s) i 0 minuts of independent work, including consultations			 Classes and final exam: 8 hour(s) i 0 minuts x 16 =128 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 8 hour(s) i 0 minuts x 2 =16 hour(s) i 0 minuts Total workload for the subject: 6 x 30=180 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 36 hour(s) i 0 minuts Workload structure: 128 hour(s) i 0 minuts (cources), 16 hour(s) i 0 minuts (preparation), 36 hour(s) i 0 minuts (additional work) 							
Student obligations			Attendance at lectures and exercises, making semester works.							
Consultatio	ons									
Literature			Task Group 9.3 , Externally bonded FRP reinforcement for RC structures fib CEB-FIP Bulletin 14 Swizerland,2001 fib Bulletin No 34: Model Code for Service Life Design, Swizerland,2006							
Examination methods			Knowledge and understanding shown during the exercises 0 do 15 Semesteral work 0 do 15 Theoretical part of the final exam 0 do 30 Analytical part of the final exam 0 do 40							
Special remarks										
Comment			Additional information about the subject can be obtained from the teacher, teaching assistant, head of the study program and vice dean for teaching.							
Grade:	F		E	D	С	В	A			
Number of points	less than 50 points		greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points			