

ECTS catalog with learning outcomes University of Montenegro

Faculty of Architecture / ARCHITECTURA / NEW TECHNOLOGIES AND MATERIALS

Course:	NEW TECHNOLOGIES AND MATERIALS							
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exe cises+Laboratory)				
4378	Mandatory	6	3	2+1+0				
Programs	ARCHITECTURA							
Prerequisites	No prerequisites required.							
Aims	Students should be familiar with basic categories and concepts in the field of new technologies and materials.							
Learning outcomes	It is expected that the student after passing the exam New technologies and materials: 1. Has adequate knowledge about structural systems, construction issues and modern technologies, relevant for architectural design; 2. Has adequate knowledge of the physical properties and characteristics of building materials, components and systems, as well as the influence of the same choices on the environment.							
Lecturer / Teaching assistant	Prof. dr Ratko Mitrović							
Methodology	Lectures, consultations, tests and final examination.							
Plan and program of work								
Preparing week	Preparation and registration of the semester							
I week lectures	Classification and general on construction technology (traditional, industrial, assembly and cell systems)							
I week exercises	Classification and general on construction technology (traditional, industrial, assembly and cell systems)							
II week lectures	Traditionally-rationalized construction systems							
II week exercises	Traditionally-rationalized construction systems							
III week lectures	Rationalized construction systems							
III week exercises	Rationalized construction systems							
IV week lectures	Prefabricated construction systems							
IV week exercises	Prefabricated construction systems							
V week lectures	Large portable and prefabricated formwork							
V week exercises	Large portable and prefabricated formwork							
VI week lectures	Prefabricated steel construction systems							
VI week exercises	Prefabricated steel construction systems							
VII week lectures	Test							
VII week exercises	Test							
VIII week lectures	Prefabricated reinforced concrete large-panel sitem							
VIII week exercises	Prefabricated reinforced concrete large-panel sitem							
IX week lectures	Industrialization and cell construction systems							
IX week exercises	Industrialization and cell construction systems							
X week lectures	Industrialization as the ultimate goal, the construction of buildings							
X week exercises	Industrialization as the ultimate goal, the construction of buildings							
XI week lectures	New materials and technologies for the execution of the interior							
XI week exercises	New materials and technologies for the execution of the interior							
XII week lectures	New technologies and materials for the construction of facades of buildings							
XII week exercises	New technologies and materials for the construction of facades of buildings							
XIII week lectures	New materials and technologies in building construction							
XIII week exercises	New materials and technologies in building construction							



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Univerzitet Crne	Out							
XIV week le	ctures N	New materials and technologies for the performance of energy efficient buildings						
XIV week ex	cercises N	New materials and technologies for the performance of energy efficient buildings						
XV week led	tures Fi	Final examination						
XV week ex	ercises Fi	Final examination						
Student w	orkload 2	2L+1E						
Per week			Per semester					
3 credits x 40/30=4 hours and 0 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises 1 hour(s) i 0 minuts of independent work, including consultations			Classes and final exam: 4 hour(s) i 0 minuts x 16 = 64 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 4 hour(s) i 0 minuts x 2 = 8 hour(s) i 0 minuts Total workload for the subject: 3 x 30=90 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) 18 hour(s) i 0 minuts Workload structure: 64 hour(s) i 0 minuts (cources), 8 hour(s) i 0 minuts (preparation), 18 hour(s) i 0 minuts (additional work)					
Student of	oligations							
Consultations								
Literature			Branislav lvkovic Dragan Arizanović - Organization and technology of construction work Goran Ćirović Trouble planning, construction technology and organization Atanas Filipovski - Meteln design for architects,					
Examination methods			Semester final works – $2 \times 25 = 50$ points - Final examination = 50 points - Passing grade gets the raise at least 51 points					
Special remarks			: Lectures are held in the amphitheater (for all students).					
Comment			Additional information can be obtained from the subject teacher, head of the study program with Dean for Academic Affairs.					
Grade:	F	E	D	С	В	А		
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		