BUILDING MATERIALS AND PRODUCTS

2020/21. 2. SEMESTER

INFORMATIONS								
COURSE NAME	Építőanyagok és termékek		BUILDING MATERIALS AND PRODUCTS					
COURSE CODE(S)	YCXÉPTEBNF							
DEPARTMENT	Óbuda University, Faculty of Architecture and Civil Engineering, Institute of Civil Engineering							
PROGRAMME, TRAINING	Civil Engineer	BSc	full-time					
COURSE INSTRUCTOR (Instructor managing the course)	Dr. Sándor <u>FEHÉRVÁRI</u> PhD,	fehervari.sandor@y	hluni ohuda hu	consulting hours:				
INSTRUCTORS, LECTURERS	Associate Professor	Teriervari.saridor@y	on.um-opuda.nu	to be considered later				
PRE-REQUIREMENT	Building materials and chemistry							
HOURS OF LECTURES (WEEKLY)	1 hour							
HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)	2 hours							
FIELD AND TRAINING (WEEKLY)	0 hours							
ASSIGNMENT	Midsemester tests, homework and exam							
CREDITS	Four credits (ECTS) for Hungarian BSc Students Seven credits (ECTS) for Erasmus Students							
AIM OF THE COURSE; BRIEF DESCRIPTION	Students become familiar with the basic mechanical and physical properties of construction materials. Basic physical, mechanical, and hydromechanical properties of the most important structural materials: iron, steel, timber, ceramics, bricks and masonry elements, artificial and natural stones, glass, and polymers.							
RECOMMENDED LITERATURE	a) Study Aids b) Everett, Alan: Materials. Mitchel's building series. ISBN 0-7134-5442-3							
REQUIRED TECHNICAL APPLIANCES/ SOFTWARE	The use of mobile phones is prohibited during examinations. In the case of online education: Contact: Neptun, E-learning (Moodle) and E-mail. Education materials: According to E-learning (Moodle) Lessons: E-learning, MS Teams							

ÓU YBL MIKLÓS FACULTY OF ARCHITECTURE AND CIVIL ENGINEERING - COURSE SCHEDULE

SCHEDULE OF THE SEMESTER FORM OF WEEK **LECTURE** LECTURER PROGRAM OF PRACTICE **PRACTICE** FS 1. Natural stones lab exercise Natural stones, products and properties 2. Artificial stones FS lab exercise Artificial stones, products and properties Wood and timber, products and properties, harmful organisms FS 3. Wood and timber lab exercise Homework study: deadline for building choice (uploading) Metals I., construction metals FS lab exercise Metals with express yield stresses 5. FS Metals without express yield stresses Metals II., joints and corrosion lab exercise 1st Test: Natural and artificial stones, 6. FS Ceramic products I. lab exercise timbers, metals 7. FS lab exercise Ceramic products, grouping, properties Ceramic products II. Insulation materials, products, and 8. Insulation materials FS lab exercise properties Waterproofing materials, products, and 9. FS lab exercise Waterproofing materials properties 2nd Test: Ceramic, insulation, and 10. Polymers used in construction FS lab exercise waterproofing materials 11. FS lab exercise Glass products Glass products, grouping and properties Summarisation Homework study: deadline for uploading the 12. FS Summarisation lab exercise final study FS 13. Repetition possibility for the tests lab exercise Repetition possibility for the tests The detailed schedule will be uploaded to the E-learning site!

REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER						
MID-SEMESTER TASKS AND TESTS						
Requirement	Description	Value (point, %, grade)				
PARTICIPATION AT LESSONS	The practice lessons can be missed up to three times (see § 46 ETVSZ).	-				
TESTS	At mid-semester tests (2 pcs) are achievable max. a number of points 60 points: - 1 st midterm theory test: Max. 30 points may be obtained, - 2 nd midterm theory test: Max. 30 points may be achieved. At least 15 points are to be collected in each test. It will ensure the repetition possibility of both tests at the end of the semester.	60 points				
HOMEWORK	Homework: Description of a freely chosen building or structures, in respect of its construction materials. Brief history, material recognitions, corrosion states, and a proposal for renovation (techniques and materials). A Guide for Homework study will be uploaded to the E-learning site. At least 20 points are to be collected in this work.	40 points				
PRE-EXAM / EXAM	Summarizing exam will be held during the examination period. Max. 100 points may be achieved. For this exam, at least 50 points are to be collected.	100 points				
TOTAL		200 points				

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SEMESTER CLOSING REQUIREMENTS									
CONDITIONS FOR OBTAINING A SIGNATURE	Successful midterm tests, proper homework, and adequate participation.								
SPECIAL EXAM COMPENSATING THE MIDYEAR TESTS FAILURES	If a student did not fulfil the requirements for obtaining the midyear test requirements but has collected at least 10-10 points in each test, he/she will be provided one occasion to make up for it within the study period in the way of a special exam containing the whole curriculum of the semester. This kind of exam is for the obtention of the semester signature only! The missing/insufficient homework or inadequate participation cannot be compensated for this special exam.								
CONDITIONS FOR OBTAINING AN OFFERED GRADE	50 out of the 60 points in the test and at least 35 in the semester tasks must be reached. Then the points are doubled, and a grade is offered without the exam. 170-179 Point 180-200 Point 4 - GOOD 5 - EXCELLENT								
CONDITIONS FOR ADMISSION TO THE EXAM	Only students who have already obtained a signature can take the exam. During the exam period, the student must register for the exam in the Neptun system. The test is a written test with a total value of 100 points. At least 50 points are to be collected in the exam. The semester and the exam points are summarised.								
EXAM GRADE	Below 100,0 points	100-125	126-	-149	150-179	180-200			
	1 - FAIL	2 - PASS	3 - SATIS	FACTORY	4 - GOOD	5 - EXCELLENT			

Budapest, dated 13rd February 2023

Dr. Sándor Fehérvári (signed)

Course Instructor
Department of Fire Safety and Construction Material Sciences

Approved by:

Dr. Sándor <u>Fehérvári</u> (signed)

Head of the department Department of Fire Safety and Construction Material Sciences