CONSTRUCTION STUDIES II. 2025/26. 2. SEMESTER

MAIN INFORMATION				
COURSE NAME	**Konstrukciós Ismeretek 2**		**Construction Studies II.**	
COURSE CODE(S)	YAXCS2FMNF			
DEPARTMENT	Óbuda University Ybl Miklós Faculty of Architecture, Institute of Architecture			
PROGRAMME, TRAINING	Architect Msc		full time	
COURSE INSTRUCTOR (Instructor managing the course)	Dr. Gergely Norbert VIZI PhD, Assistant Professor	vizi.gergely.norbert@uni-obuda.hu	consulting hours: TUE 14:25-15:10, WED 10:45-11:30, by prior arrangement in e-mail, in the institute office	
INSTRUCTORS, LECTURERS				
PRE-REQUIREMENT	**Construction Studies I.**			
HOURS OF LECTURES (WEEKLY)	1 hours (1x 45')		**HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)**	1 hours (1x45')
ASSIGNMENT	Midterm assignment, and test		**CREDITS**	3 credits (ECTS)
BRIEF DESCRIPTION	• To get to a common knowledge on basic and ecological building structures and systems in Central Europe such as substructures, waterproofing, flatroofs, terace and green roofs, curtain walls, and hall structures. • To learn the requirements and applicability of this structures and • To get familiar with the required form and content of an execution plan with the help of the end term plan			
RECOMMENDED LITERATURE - **(Building Construction)**	Andrea Deplazes (2005) Constructing Architecture Angus J. Macdonald (2001) Structure and Architecture Széll László (2011): Magasépítéstan I-II. TERC Kft., Budapest Bársony István (2006): Magasépítéstan I. TERC Kft., Budapest Bársony István (2007): Magasépítéstan II. TERC Kft., Budapest Christian Schittich (ed.) (2008): Building Skins. BIRKHÄUSER EDITION DETAIL, Berlin Ansgar and Benedikt Schulz (2016): Perfect Scale. BIRKHÄUSER EDITION DETAIL, Berlin Christian Schittich (Ed.) (2006): Maisons individuelles. BIRKHÄUSER EDITION DETAIL, Berlin Christian Schittich (Ed.) (2010): Small Structures. BIRKHÄUSER EDITION DETAIL, Berlin Detail magazin https://www.detail-online.com/			
TECHNICAL EQUIPMENT REQUIRED	Rulers, pencils, A3-A2 paper. The use of mobile phones and notes are prohibited during the examinations. In case of online education: Contact: Neptun, E-learning and E-mail. Education materials: According to E-learning Lessons: E-learning, Zoom			

SCHEDULE OF THE SEMESTER

WEEK	LECTURE	LECTURER	FORM OF PRACTICE	PROGRAM OF PRACTICE
1. 18.feb.	Introduction, WATERPROOFING – substructures, soil moisture insulation	VGN	Handing out HW#1	Handing out **Homework #1** (execution plan)
2. 25.feb.	WATERPROOFING - groundwater, groundwater pressure	VGN	MGY1 sub structure details	
3. 04.mar.	FLAT ROOF DESIGN - straight and inverted layering, single and double roofs, walkable and non-walkable roofs.	VGN	MGY2 Slope design	
4. 11.mar.	FLAT ROOF INSULATION - Roof insulation of different materials Waterproofing – terrace roofs	VGN		*HW1 consultation*
5. 18.mar.	FLAT ROOFS – green roofs	VGN	MGY3: roof details	
6. 25.mar.	*HW1 consultation*	VGN		*HW1 consultation*
7. 01.apr.	**1st. TEST**	VGN		*HW1 consultation*
8. 08.apr	CURTAIN WALLS • DESIGN QUESTIONS • DETAILS	VGN	MGY4: curtain wall details	*HW1 submission*
9. 15.apr.	HALL STRUCTURES	VGN	Handing out HW#2	HW1 expletive submission
10. 22.apr.	HALL STRUCTURES	VGN		HW#2 Consultation
29.apr	RECTORAL BREAK			
11 06.may.	**2nd. TEST**	VGN		HW#2 Consultation
12 13.may.	SUMMARY	VGN	CorTEST1	**Handing in HW#2**
13 20.may.	CorTEST2	VGN	HF2 expletive submission	Evaulation

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) You have to arrive well prepared, otherwise you won't be marked as present in the lectures and seminars	-
IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS	Absence is considered to be justified with a medical certificate presented.	-
MGY1 SUB STRUCTURE DETAILS	Students draw substructure details. *Formal requirements*: on provided pre-printed worksheet with pencil, fineliner, ruler. *Handing in:* at the end of class. ade=adequate/ ina=inadequate	ade/ina
MGY2 SLOPE DESIGN for FLAT ROOF	The students prepare a top view drawing of a flat roof structure. M=1:50 *Formal requirements*: you must work on the worksheet downloaded and printed from e-learning. Work with pencil. Free hand drawing is advised *Handing in:* at the end of class	ade/ina
MGY3 FLAT ROOF DETAILS	Students make models for different cladding and draw them in section and view. *Formal requirements*: you must work on the worksheet downloaded and printed from e-learning. Work with pencil. Free hand drawing is advised *Handing in*: at the end of class	ade/ina
MGY4 CURTAIN WALL	The students draw curtain wall connection details. *Formal requirements*: you must work on the worksheet downloaded and printed from e-learning. Work with pencil. Free hand drawing is advised *Handing in:* at the end of class	ade/ina
HW1 EXECUTION PLAN	The students will make an execution plan section of a multistory building's flatroof based on their previous work with weekly consultation. *Formal requirements*: drawings on A2/A3-as paper S=1:50, 1:20, 1:10 1:5 scale, drawings can be made by hand or CAD. *Handing in:* as in schedule. teacher's signature required before handing in 1 pcs section M=1:50, 1:20, 1 pcs roof plan M=1:50, 1:20, min. 3 pcs details	max 35 min 17,5
HW2 HALL	As independent work, with weekly consultation the students prepare the plans or 3D model of a Hall. *Formal requirements*: A3/A2 page M=1:100 scale, with ruler or CAD. *Handing in:* 1 or 2 pcs. A3/A2 page according to schedule.	max 25 min 12,5
OPTIONAL TASK (NOT OBLIGATORY AND DOES NOT REPLACE ANY TASK OR PARTICIPATION IN ANY DUTY!)	Presentation connecting to the semester/ business trip report/ workbook presenting in the last lecture	max 6 points
TEST (TS)	The goal of the TESTs is to check the general knowledge acquired from the subject. In the test we will basically require drawings worthy of an engineer with explanatory text. You should acquire 60% in the test to pass it.	TS1 max20 min 10 TS2 max20 min 10
TOTAL		100 pont

<table>
<tr><th colspan="6">SEMESTER CLOSING REQUIREMENTS</th></tr>
<tr><td>CONDITIONS FOR OBTAINING A SIGNATURE</td><td colspan="5">You have to do all of the tasks and have at least the minimum points from all of them separately. You have not skipped lectures and/or practice more than 3 times

Anyone who plagiarizes - i.e. violates the provisions of Section 4 (2) of the Code of Ethics of Óbuda University - will be refused permission to complete the course by the instructor responsible for the course, and the University may initiate disciplinary proceedings based on Section 90 of the HKR TVSZ.</td></tr>
<tr><td rowspan="2">SEMESTER GRADE</td><td>0-50 point</td><td>51-65</td><td>66-79</td><td>80-89</td><td>90-100</td></tr>
<tr><td>1 - FAIL</td><td>2 - PASS</td><td>3 - SATISFACTORY</td><td>4 - GOOD</td><td>5 - EXCELLENT</td></tr>
<tr><td>SIGNATURE RETAKE EXAM</td><td colspan="5">One out of the tests can be retaken in the signature retake exam, if the test and the corrective test was both unsuccessful. If neither the test and nor the corrective test was written (min 20% of the total points) the test can’t be retaken in the signature retake exam. The signature retake exam will be from the whole material of the semester.
OR
One of the homework can be submitted, it the other was submitted during the semester and the points gained for those reaches the minimum requirement. In case of submitting with signature retake, the maximum point will be equal with the minimum point.
SO
One of the tests OR one Homework can be done with signature retake exam, not both!</td></tr>
</table>