

ARCHITECTURAL CAD

2021/22 SEMESTER 2

Course description			
COURSE NAME	Architectural CAD		
COURSE CODE(S)	YCRSZÉPBNF		
DEPARTMENT	Óbuda University, Ybl Miklós Faculty of Architecture and Civil Engineering, Institute of Civil Engineering		
PROGRAMME, TRAINING	BSc		full time
COURSE COORDINATOR	Dr. István Talata PhD, Associate Professor	talata.istvan@ybl.uni-obuda.hu	
INSTRUCTOR	Dr. Gergely Mészáros PhD, Assistant Professor	meszaros.gergely@ybl.uni-obuda.hu	
PRE-REQUIREMENT	none		
HOURS OF LECTURES (WEEKLY)	-		
HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)	2 hours		
FIELD AND TRAINING (WEEKLY)	-		
ASSIGNMENT	2 Midterm exams and a Homework assignement		
CREDITS	5 credits (ECTS)		
AIM OF THE COURSE, BRIEF DESCRIPTION	Modeling buildings and their surroundings with architectural CAD software.		
RECOMMENDED LITERATURE	Elearning course materials, and ArchiCAD user manual.		
REQUIRED TECHNICAL APPLIANCES/ SOFTWARE	ArchiCAD (the software available for students for free).		

SCHEDULE OF THE SEMESTER	
WEEK	PROGRAM OF PRACTICE SESSIONS
1	Az introduction of the user interface of ArchiCAD. Menus, toolboxes and palettes. Adjusting floor levels.
2	Creating slabs, walls and columns.
3	Creating openings (doors and windows).
4	Inserting stairs, rails and furniture.
5	Creating roofs. Dimensioning. Creating sections.
6	Midterm exam 1.
7	Creating 3D zones with zone stamps including area and volume Creating column, wall, and beam with user defined profile.
8	Creating terrain with level curves, using the mesh tool. Using solid element operations (especially: subtraction, and subtraction with upwards extrusion).
9	Inserting cameras in the model. Creating rendered jpg pictures of the model. 3D view picture (jpg). Creating fly-through on a camera path.
10	Roof editing: creating pitched roof and joints of roof appropriately. Creating user defined stair.
11	Creating user defined objects and user defined window.
12	Midterm exam 2.
13	Make up exams.

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 of the Regulations of the Studies)	-
IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS	Absence is considered to be justified with a medical certificate presented.	-
Short description of the TASKS	Homework: creating the ArchiCAD model of a predetermined house, and a presentation (or a paper) describing the construction steps with corresponding screenshots. The Homework is assigned during Week 7, and its deadline is the class of Week 12.	20 points
Midterm exams	Two Midterm exams are written during the term (in Week 6 and Week 12).	40-40 points
TOTAL		100 points

To obtain a grade, the Homework should be submitted before its deadline and the Midterm exams should be written in class.

SEMESTER CLOSING REQUIREMENTS					
COURSE GRADE	0-55 points	56-65 points	66-75	76-85	86-100
	1 - FAIL	2 - PASS	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT