ARCHITECTURAL CAD

2022/23. 2. SEMESTER

BASIC INFORMATIONS	
TITLE	**Architectural CAD**
CODE	YCRSZÉPBNF
DEPARTMENT	Óbudai University, Ybl Miklós Faculty of Building Science, Institute of Civil Engineering
MAJOR	CE Bsc / Erasmus · full-time
SUBJECT TEACHER	Dr. István Talata, PhD · email: talata.istvan@uni-obuda.hu · Consultations: during the semester according to the official homepage
LECTURER	Gergely Mészáros, PhD · email: meszaros.gergely@uni-obuda.hu · Consultations: during the semester according to the official homepage
PREREQUISITE(S):	NONE
LECTURE (WEEKLY)	-
PRACTICAL CLASS (WEEKLY)	1 x 2 hours (90')
COURSE EVALUATION TYPE	
CREDITS	4 credits
GOAL OF THE SEMESTER, SHORT DESCRIPTION	Creating ArchiCAD models of buildings. Using basic tools: slabs, walls, doors, windows, roof, stairs, columns, beams, objects. Create zones, dimensioning, mesh. Make user defined objects and windows. Solid element operations. Create complex roofs and user defined stairs. Save pictures and movies of walk-in paths of buildings. Publishing documentations of models.
RECOMMENDED LITERATURE	ArchiCAD Basic e-Guide (online),
	ArchiCAD Modeling e-Guide (online)
REQUIRED COURSE MATERIAL	None. Use of own laptop is allowed.

Outline of the semester		
Week	**type**	**Workshop topics**
1.	in person	Introduction to basics of ArchiCAD. Using menus, palettes, views.
2.	in person	Creating slabs, walls, openings (windows, doors), layers.
3.	in person	Creating simjple and complex roofs. User defined profiles for columns, walls and beams.
4.	in person	Adjusting levels. Use virtual trace in multi-level buildings. Create sections, elevations. Dimensioning.
5.	in person	Using the Mesh tool to create terrains.
6.	in person	Test 1 (basic building)
7.	in person	Using Roofmaker and Trussmaker. User defined objects and windows. Homework.
8.	in person	Solid element operations.
9.	in person	3D-sections. Create photos and walk-in movies from the model.
10.	in person	Publishing / documentation
11.	in person	*Background, light sources, rendering options for photos of the model.*
12.	in person	*Importing and exporting objects to ArchiCAD from other CAD software, Review of course topics. Evaluation and deadline for homework.*

ÓE · ÓBUDAI EGYETEM · YBL MIKLÓS ÉPÍTÉSTUDOMÁNYI KAR

COURSE EVALUATION / GRADES

EVALUATION	DESCRIPTION	VALUE
Participation	At most 3 abscences are allowed (ETVSZ 29§)	-
Test 1	In-class work, using basic modeling tools of ArchiCAD to create a building.	35 points
Test 2	In-class work, using advanced modeling tools of ArchiCAD to create a complex building.	35 points
Project work	The ArchiCAD model of the building and its documentation (with photos and walk-in movies) is expected.	30 points
In summary		100 points

EVALUATION OF THE SEMESTER

MINIMUM REQUIREMENTS	Project work is at least 10 points				
	Both tests are passed (at least 10 points each)				
	Failure to comply with the above requirements will result in the semester being denied.				
GRADING	0-55	56-65	66-75	76-85	86-100
	1 - FAILED	2 - SUFFICIENT	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT

ÓBUDAI EGYETEM
YBL MIKLÓS ÉPÍTÉSTUDOMÁNYI KAR