

BASIC INFORMATIONS

LECTURER	Prof. Gyula NAGY PhD, Associate Prof. István TALATA PhD	
TOPIC	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.	
LECTURE (WEEKLY)	-	4 credits
WORKSHOP (WEEKLY)	1 x 2 hours (90')	
EXAM/TEST/TASK	0 / 2 / Create an ArchiCAD model of a given building	

GOAL OF THE SEMESTER: To develop the ability of creating virtual models of buildings by ArchiCAD.

OUTLINE FOR THE SEMESTER

WEEK	WORKSHOP	DEADLINE
1	Introduction to basics of ArchiCAD. Using menus, palettes, views.	
2	Create slabs, walls, openings (windows, doors), layers.	
3	Create simple and complex roofs. User defined profiles for columns, walls and beams.	
4	Adjusting levels. Use virtual trace in multi-level buildings. Create sections, elevations. Dimensioning.	
5	Creating stairs. User defined stairs.	
6	Using the Mesh tool to create terrains.	Test 1
7	Using Roofmaker and Trussmaker. User defined objects and windows.	Homework
8	Solid element operations.	
9	3D-sections. Create photos and walk-in movies from the model.	
10	Publishing documentations of the model.	
11	Background, light sources, rendering options for photos of the model.	
12	Exporting objects to ArchiCAD from other CAD software. Importing objects from ArchiCAD to other CAD software.	Test 2, Homework deadline
13	Review of course topics.	Make up tests

TASK / EXAM

	DESCRIPTION	TO HAND IN	SCORE
Test 1	In-class work, using basic modeling tools of ArchiCAD to create a building		40
Test 2	In-class work, using advanced modeling tools of ArchiCAD to create a building		40
Homework	Every student gets a different homework assignment of a building.	The ArchiCAD model of the building and its documentation (with photos and walk-in movies) is expected.	20
TOTAL			100

EVALUATING

0-55 points	56-65 points	66-75 points	76-85 points	86-100 points
1 - FAILED	2 - SUFFICIENT	3 - SATISFACTORY	4 - GOOD	5 - EXCELENT