

BIM DESIGN WITH ARCHICAD

1	Course Title:	BIM DESIGN WITH ARCHICAD
2	Course Code:	MIM3057
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. SELEN DURAK
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	nkaya@uludag.edu.tr
17	Website:	
18	Objective of the Course:	With the BIM system, which allows architectural, static, mechanical, electrical and plumbing projects to be worked on simultaneously on the model, the basis of this way of working, which allows the project design and implementation processes in the construction sector to be completed in a short time, is to convey the basis of this way of working through the ARCHICAD program.
19	Contribution of the Course to Professional Development:	Making case studies on how to complete the design, projecting and presentation processes of an architectural project with the BIM system in a short time through the ARCHICAD program, reinforcing the BIM working style by making applications in the ARCHICAD environment.
20	Learning Outcomes:	
	1	Recognition of Building Information Modeling technology by students and ensuring its effective use in the architectural project drawing process. Use of technology in architectural design and drawing.
	2	Reinforcement of technical expressions in architectural project drawings, Understanding the importance of technical expressions in architectural project design stages and BIM-based applications. Teaching a different representation tool in architectural project drawing
	3	Learning the importance of the unity of design and application, including structural elements and connection details, in the drawing and manufacturing of a project. Seeing the three-dimensional plane equivalents of Epure plane drawings.
	4	
	5	
	6	
	7	
	8	
	9	

		10		
21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	What is BIM (Building Information Modeling)?			
2	What can be done with Archicad, a BIM-based program?			
3	Interface explanation, "level" logic in Archicad, Walls			
4	Definition and drawing of axes, columns, column-axis relationship, doors and windows.			
5	Identification and drawing of floors and suspended ceilings, roofs.			
6	Single storey case study (part 1)			
7	Ramps, stairs, railings			
8	Single-storey sample study (2nd part) + Topography, Section taking, View taking			
9	Dimensions, elevations, symbols, room label, labels, color fill legend, placing on ready-made sheets, placing north arrow, placing rotated plan on sheets			
10	Curtain wall			
11	2nd case study 1st lesson, Wall layers			
Activites		Number	Duration (hour)	Total Work Load (hour)
(Homework)				
Theoretical	13 2nd case study 3rd lesson, detailed	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation (+homework)	Planning operations, arrangement of elevations	14	2.00	28.00
Homeworks		1	10.00	10.00
Projects	Views, Laying	0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm Exams	Materials:	November 2009	10.00	10.00
Others		*Graphisoft ARCHICAD Interactive Training Guides 2	0	0.00
Final Exams		*Graphisoft BIM Curriculum	14.00	14.00
Total Work Load				90.00
Total work load/ 30 hr				3.00
ECTS Credit of the Course				3.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm Exam		1	20.00	
Quiz		0	0.00	
Home work-project		1	20.00	
Final Exam		1	60.00	
Total		3	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		40.00		
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		

Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation are carried out according to the principles of Bursa Uludağ University Associate Degree and Undergraduate Education and Training Regulation.
--	---

24	ECTS / WORK LOAD TABLE
-----------	-------------------------------

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
-----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	1	5	4	4	2	1	5	4	5	5	0	0	0	0	0
ÖK2	3	3	4	3	3	1	3	2	5	3	3	0	0	0	0	0
ÖK3	3	1	5	4	3	2	3	5	4	4	4	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications																
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Contribution Level:	1 very low	2 low		3 Medium		4 High		5 Very High	
----------------------------	-------------------	--------------	--	-----------------	--	---------------	--	--------------------	--