

Basic course data			
Academic unit:	Faculty of Architecture, Design and Wood Technology		
Program:	Design and Construction of Wooden Products		
Course title:	CAD in Furniture Design II		
level:	Bachelor		
Course status:	Mandatory		
Year of studies:	II		
Number of hours per week:	4		
Value on credit - ECTS:	5		
Subject teacher:	MSc. Faton Spahiu		
Contact details:	faton.spahiu@ushaf.net		
Course description:	<p>This course aims to introduce the introduction to the ArchiCAD program, 3D architectural modeling and understanding of BIM (Building Information Modeling).</p> <p>This course introduces the basics of BIM (Building Information Modeling) through the creation of a 3D virtual Model of the building with architectural tools and elements (walls, columns, slabs, roof, morph, doors & windows, objects, stories, etc.), and continues in other topics such as the creation of 3d products of Interior design (morph) graphic documentation - drawings (layouts) and the creation of visualizations (rendering).</p>		
Course objectives:	<p>The aim of this course is to provide students with basic knowledge about the design of buildings, interiors and the creation of interior design products by using ArchiCAD software.</p>		
Expected learning outcomes:	<p>At the successful completion of this course, students will be able to:</p> <ul style="list-style-type: none"> • Creates buildings plans and generate sections, facades and 3Ds • Create 3d models of interior design • Be able to print the drawings in different formats and scales 		
Contribution to student workload corresponding to student learning outcomes			
Activity	Hours/Day	Week	Total

Lectures	2	15	30
Theoretical / laboratory exercises	1	15	15
Practical work	3	1	3
Contacts with the teacher / consultations	1	11	11
Field exercises	3	1	3
Test			
Homework			
Student's own study time (in the library or at home)	4	15	60
Final preparation for the exam	1	3	3
Time spent on assessment (final exam)	1	2	1
Projects, presentations, etc.			
Total			126

Teaching methodology:	Lectures and exercises combined with case studies
Evaluation method:	Class attendance: 10%, Weekly assignments: 10%, Semester assignments: 20%, Final exam: 60%, Total: 100%

Literature	
Basic literature:	[1].Training Guide for Archicad, by Thomas M.Simmons January 1,2006. [2].Archicad 19 - The definitive Guide by Scott H. MacKenzie - June 30,2015
Additional literature:	[1] ArchiCad 23 Reference Guide, by Graphisoft. [2] Archicad Online Help Archicad Tutorials - Training Guides, text + video http://www.graphisoft.com/learning/training-materials/

Designed lesson plan:	
Week	The lecture that will take place
First week:	Understanding BIM
Second week:	Defining the Geometry
Week third:	Developing the building forms
Week four:	Establish the building slabs
Week fifth:	Developing 3d Model
Week sixth:	Working with windows and doors

Week seven:	Completing the building envelope
Week eight:	Understanding objects and GDL
Week ninth:	Adding Circulation
Week ten:	Creating of interior design products (morph tool)
Week eleven:	Creating of interior design products II (morph tool)
Week twelve:	Adding Details
Week thirteen:	Viewing the building information
Week fourteen:	Mesh tool
Week fifteen:	Positioning and printing building plans
Academic policies and etiquette:	
<i>Regular attendance, keeping calm and active engagement in dialogue during lectures and exercises is mandatory.</i>	