SYLLABUS

University Academic unit Program Title of the subject
Academic unit Program
Program
Title of the subject
Level
Course Status
Year of studies
Number of hours per week
Value of Credits - ECTS
Time / location
Course lecturer
Contact details
Course Description
Objectives of the course
Expected learning outcomes
Prerequisites
Prerequisites
Prerequisites Contribution to the stude
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Contribution to the stude
Contribution to the stude
Contribution to the stude Activity Lectures with numerical exercise
Contribution to the stude Activity Lectures with numerical exercis Internship
Contribution to the stude Activity Lectures with numerical exercise Internship Contacts with teacher / consultation
Contribution to the stude Activity Lectures with numerical exercis Internship Contacts with teacher / consulta Field exercises
Contribution to the stude Activity Lectures with numerical exercise Internship Contacts with teacher / consultate Field exercises Midterm, seminars and projects
Expected learning outcomes

Time spent on evaluation (tests,	quiz and			
final exam)		2		2
Projects and presentations.			1	1
Total				129
Teaching methodology Assessment methods	Lectures through presentations, as well as using software directly, exercises tasks and examples, seminars, discussions. The student can choose to be assessed one of the two forms of assessment, given below: 1. Form 1: Evaluation with test and the Graphic tasks 2. Form 2: Evaluation of the final exam. Form 1: In the first form of assessment "Assessment with two test and graphic task" the student is assessed in three activities that are carried out during the lectures: 1. Test (70%), individual assessment 2. Class activity (10%), individual assessment 3. Graphic task (20%), individual assessment. Additional clarification: If the student in each activity above reaches the maximum points, then he will be evaluated with 100 points.			ars, discussions.
				hic tasks
	Students who pass the exam according to Form 1 of the assessment, are released from the obligation to take the final exam. Only if the student is not satisfied with the grade achieved according to form 1, then he can undergo the final exam to obtain a higher grade.			
	Form 2:			
	In the second form of evaluation, "Evaluation with the final exam", the student will undergo the exam which will be held after the end of the course lectures and is organized in the exam deadlines, determined by the University Senate.			
	70% of the p 1. Final 2. Class	ooints from th l exam (70%) s activity (109	the student can ach e total of 100 points , individual assessm %), individual assess %), individual assess	s. nent sment
		•	exam, the evaluati an evaluation form	· ·

	completed individually by the student. The evaluation form will contain the task of drawing the models in 3D during the test/exam time. Activity in the class means the student's engagement in dealing with the issues discussed in the class, during the lectures. Graphic Task (20%): it is an activity in which students apply the acquired knowledge in a concrete project. It is carried out by one student who is obliged to carry out the activity, document it, and present it to the subject professor. Rating: 91-100 points – graded 10 (ten) 81-90 points – graded 9 (nine) 71-80 points – grade 8 (eight) 61-70 points – grade 6 (six) 0-50 points – The student repeats the exam.
The ratio of theory and	•
practice	60% theory with exercises and 40% laboratory work.
Literature	
Basic Literature	[1] Avdiu S. Vizatimi me kompjuter (AutoCAD 2008) [2] Avdiu S. Vizatimi me kompjuter (praktikum) 2005 [3] Engineering Design Graphics with Autodesk Inventor 2020, James D. Bethune.
Additional Literature	[4] Finkelstein E. AutoCAD 2013 and AutoCAD LT 2013 BIBLE.2012 [5] Autodesk Inventor 2019, Basics Tutorial
Designed learning plan	,
Week:	Lectures and exercises to be held
Week one	Start working in 3D view (AutocAD). Transition from 2D view to 3D view. How to use the interface (command panels, 3D images, ribbon, etc.) Commands in Solid panel (BOX, SPHERE, CYLINDER, CONE, WEDGE and TORUS)
Week two	Commands in the draw and modify panel (3D polyline, 3D mirror, 3D rotate, 3D align, 3D scale, etc.). Commands: Extrude, Loft.
Week three	Commands in the draw and modify panel (3D array, 3D fillet, chamfer, etc.). Commands: Sweep, Revolve. UCS coordinate system, Viewports. Creating layeres.
Week four	Solid Editing Commands (union, slice, subtract, intersect, thickness, separate, etc.)
Week five	MESH commands (mesh box, cylinders etc.). Mesh solids modeling and editing.
Week six	Dimensioning. Materials (RMAT).

Week seven	Visualizing. Rendering.		
Week eight	Start working at Autodesk Inventor. Interface. Description of		
	some features (commands) similar to the AutoCAD program.		
Week nine	Sketching tools.		
Week ten	Basic models in Autodesk Inventor.		
Week eleven	Assembly Creating.		
Week twelve	Creating complex models		
Week thirteen	Dimensioning. Projections. Slicing.		
Week fourteen	Visualizing. Materials.		
Week fifteen	Simulation of model parts.		
	Test		

Academic policies and rules of conduct

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.