

Course title: CAD

Course Basic Information			
Academic Unit:	Faculty of Civil Engineering		
Course title:	CAD		
Level:	Bachelor		
Course Status:	Elective		
Year of Study:	2nd Year 3rd Semester		
Number of Classes per Week:	2+1		
ECTS Credits:	3 ECTS		
Time /Location:	According to the announced timetable		
Teacher:	Prof.asoc.Dr. Arta Basha-Jakupi		
Contact Details:	Email: arta.jakupi@uni-pr.edu www.fn.uni-pr.edu		
Course Description:			
		This course provides students with a broad introduction into 2-dimensional and 3-dimensional Computer-Aided Design (CAD) and modeling with a focus on construction- and architecture-specific applications, including Building Information Modeling (BIM). Students will learn how to use industry-leading CAD software programs to model construction projects, and then create and distribute basic, industry-standard architectural drawings.	
Course Goals:			
		Understanding the practice of the CAD program and advancement in the use of design drawing.	
Expected Learning Outcomes:			
		Understanding of the power and precision of computer-aided modeling and drafting; Ability to construct accurate 2D geometry as well as complex 3D shapes and surface objects; Ability to create 2D representations of 3D objects as plan view, elevations and sections; Ability to assemble these drawings in industry-standard plan form and produce plotted hardcopies ready for distribution; Awareness of architectural drafting with a focus on industry standards. Awareness of Building Information Modeling (BIM) principles.	
Student Workload (should be in compliance with student's Learnign Outcomes)			
Activity	Hours	Day/ Week	Total
Lectures	2	15	30
Theory/ Lab Work/Exercises	2	15	30
Practical Work			
Consultations with the teacher	0.5	14	7
Field Work			
Test, seminar paper	4	2	8
Homework			
Self-study (library or home)			
Preparation for final exam			
Assessment time (test, quiz, final exam)			

Projects, presentations, etc.			
Total			75
Teaching Methods:	Lectures, exercises during class using different materials, one project work in group of 2-3 students (independent work), individual homework		
Assessment Methods:	Assessing the presence of 5%; First Evaluation 35%; Second Evaluation 35%; Individual work 25%, final exam for those who have not passed the first and second evaluation.		
Primary Literature:	Lectures prepared by prof.asoc.dr.Arta Basha-Jakupi Omura G., & Sybex A., (2018) Mastering AutoCAD and AutoCAD LT, J. Wiley & Sons		
Additional Literature:	Onsott S.,(2018) AutoCAD and AutoCAD LT, John Wiley & Sons		
Designed teaching plan			
Week	Title of the Lecture		
Week 1:	Short Introduction of CAD, Comparison with other CAD programs		
Week 2:	Different Phases during work with AutoCAD-Assignment		
Week 3:	Program Interface, AutoCAD configuration		
Week 4:	Layers and Line Properties		
Week 5:	Object Snap and Grip Selection		
Week 6:	Functions/ Commands for Straight Lines		
Week 7:	Functions /Commands for Curved/Arch Lines		
Week 8:	Editing/Modify Commands		
Week 9:	Navigation (Zoom, Pan, View and Name Port)		
Week 10:	Text		
Week 11:	Dimensions and Hatch		
Week 12:	Layout's and Ploting		
Week 13:	Working with blocks		
Week 14:	Work with external references		
Week 15:	Third Dimension / 3D		
Academic Policies and Code of Conduct			
<p><i>We start and finish class on time.</i></p> <p><i>Tools used during class must be cleaned and stored away at the end of class.</i></p> <p><i>Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.</i></p> <p><i>Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.</i></p>			

Note | Only the students who have been evaluated with a positive grade as well as who have no more than three reasonable /unreasonable absences of the lectures or exercises are awarded with the credits of the course.