Course title : CAD

Course Basic Information	
Academic Unit:	Faculty of Civil Engineering
Course title:	CAD
Level:	Bachelor
Course Status:	Elective
Year of Study:	3rd Year | 6th Semester
Number of Classes per Week:	2+0
ECTS Credits:	3 ECTS
Time /Location:	According to the announced timetable
Teacher:	Prof.asoc.Dr. Arta Basha-Jakupi
Contact Details:	+383 49 309 859 arta.jakupi@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

We start and finish class on time.
Tools used during class must be cleaned and stored away at the end of class.
Mobile/smart phones, and other electronic devices (e.g. iPods) must be turned off (or on vibrate) and hidden from view during class time.
Laptop and tablet computers are allowed for quiet use only; other activities such as checking personal e-mail or browsing the Internet are prohibited.

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.