

COURSE TITLE:
CAD TECHNIQUES 01 – CAD MODELING

Institute/Division: A43 - Institute of Construction Design; Division of Descriptive Geometry, Technical Drawing and Engineering Graphics

Number of contact hours: 30

Course duration: 1 or 2 semesters (Fall and/or Spring Semester)

ECTS credits: 4

Course description: Application of Computer Aided Design methods and techniques into practice. Includes techniques for creating 2D vector (AutoCAD) and raster (Photoshop, GIMP) graphics and 3D drawings which are directly related to the real-world architectural structures. New concepts of 3D architectural design and modeling with AutoCAD, Mudbox, Blender, 3dsMax applications. Introduction of modern tools (Drawing Board, 3D printer) and methods (Solution for Teamwork, “working in the cloud”) into design process: starting from a 3D modeling, through visualization, animation (AutoCAD, 3dsMax Design, Mudbox) into technical layouts, cross sections and dimensioning creation (blueprints). Advanced level of the course is offered in the second semester.

Literature: Basic literature on Graphics, CAD, Geometry and Technical Drawing

Course type: Computer laboratory: individual design work

Assessment method: Evaluation of all design assignments

Prerequisites: Basic knowledge on the architectural design, basic ICT skills

Primary target group: All level students in Architecture , Landscape Architecture , Civil Engineering

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