

**Faculty of Civil Engineering / Građevinarstvo (2017) / Tehničko crtanje**

Prerequisites	There is no conditionality by other exams.
Aims	To acquire basic knowledge of the elements of technical drawing; understanding/reading and independent production of technical drawing; presenting 3D objects on 2D media (paper or computer monitor), using classic drawing tools or the Auto Cad software package.
Lecturer / Teaching assistant	Marija Jevrić
Metdod	Lectures and consultations
Week 1, lectures	Introduction to technical drawing; classic drawing tools; types of technical lines; scale; standards in technical drawing
Week 1, exercises	
Week 2, lectures	Type and purpose of lines; technical letters; graphic markings and symbols in engineering drawings.
Week 2, exercises	
Week 3, lectures	Methods of 3D object representation: orthogonal and central projection and axonometry.
Week 3, exercises	
Week 4, lectures	Types of dimensioning and dimension elements; dimensioning rules; hatching.
Week 4, exercises	
Week 5, lectures	Types of construction projects, their content and requirements; project composition
Week 5, exercises	
Week 6, lectures	Drawing of roads, buildings, construction sites, installations...
Week 6, exercises	
Week 7, lectures	Basic geometric constructions and transformations
Week 7, exercises	
Week 8, lectures	1st part of the exam
Week 8, exercises	
Week 9, lectures	Introduction to Auto Cad; interface, elements and initial settings
Week 9, exercises	
Week 10, lectures	Coordinate systems, grid and OSNAP functions
Week 10, exercises	
Week 11, lectures	Basic commands for drawing lines, polygons, curves and polylines
Week 11, exercises	
Week 12, lectures	Basic commands for modifying and transforming objects
Week 12, exercises	
Week 13, lectures	Dimensioning, text entry, hatch
Week 13, exercises	
Week 14, lectures	Blocks, layers, preparation for printing
Week 14, exercises	
Week 15, lectures	2nd part of exam
Week 15, exercises	
Student obligations	To attend lectures, do graphic papers and sit their exams.
Consultations	Mon, 12-13h Thu, 12-13 h
Workload	Weekly 3.0 credits x 40/30 = 4 hours Total workload to the course: 3.0 x 30 = 90 hours
Literature	
Examination metdods	The forms of knowledge testing and grading: Assessment is carried out continuously throughout the

	semester and the final exam. If the student shows a minimally sufficient level of knowledge during the semester can earn 51/100 points.
Special remarks	
Comment	Additional information can be obtained at the present teaching staff, Head of the study program, and at Vice Dean for academic affairs.
Learning outcomes	After passing this exam, the student will be able to: 1. Draw a clear, precise, unambiguous and aesthetically appropriate technical drawing, and imagine the drawn object in space, as well; 2. Know all elements of the technical drawing, as a basis for the preparation of project documentation and independently drawing and understanding of it; 3. Graphically represent 3D objects and details using standards and rules of technical drawing, with the help of classic tools or computer-aided drawing.