

Basic data of the subject			
Academic unit:	Faculty of Architecture, Design and Wood Technology		
Program:	Design and Construction of Wooden Products		
Title of the subject:	Technical Drawing and Descriptive Geometry		
Level:	Bachelor		
Course Status:	Mandatory		
Year of studies:	I		
Number of hours per week:	4		
Value of Credits - ECTS:	6		
Time / location:	UASF		
Course lecturer:	MSc. Lulzim Idizi		
Contact details:	Lulzim.idrizi@ushaf.net		
Course Description			
	Knowledge of technical standards. Technical drawing. Formats, proportions, tables. Construction of geometric objects. Technical Writing. Dimensioning and Quoting. Technical drawing rules. Cuts. Sketching. Presentation of technical drawings. Descriptive geometry. Projection of geometric elements. Cutting the objects.		
Objectives of the course:	The aim of this course is to provide students with basic knowledge of engineering graphics.		
Expected learning outcomes:	<p>After the completion of this course, students will be able to:</p> <ul style="list-style-type: none"> • know the technical letters, sorts of lines, types of paper, formats, tables, • understand the drawing and sketching of various geometric constructions, • apply dimensional rules, layout of points, lines, and objects in space, • create technical and engineering drawings, • successfully develop engineering projects using technical drawing knowledge. 		
Contribution to the student load (which must correspond with learning outcomes)			
Activity	Hour	Day/Week	In total
Lectures	2	15	30
Theoretical exercises / laboratory	2	15	30
Internship	2	2	4
Contacts with teacher / consultations	1	1	1
Field exercises			

Midterm, seminars and projects.	3	2	6
Homework	3	7	21
Self-learning time student (at the library or at home)	3	10	30
Final preparation for the exam	4	5	20
Time spent on evaluation (tests, quiz and final exam)	2	2	4
Projects and presentations	4	1	4
Total			150

Teaching methodology:	Lectures through presentations, exercises tasks and examples, seminars, discussions.
Assessment methods:	Attendance 10%, Class activities 20%, Graphic tasks 50%, Final exam 20%. Total 100%
Literature	
Basic Literature:	[1] Bajraktari M. dhe Doçi I. Grafika Inxhinierike, Prishtinë, 2014. [2] William P. Spence: Drafting Technology and Practice, Peoria, Illinois, 1980. [3] K.C. John, Engineering Graphics for Diploma, PHI Learning Private Limited, 2009. [4] Bajraktari M. dhe Doçi I. Vizatimi Teknik, Prishtinë, 2010
Additional Literature:	[1] Hoischen H. Technisches Zeichnen, Grundlagen, Normen, Beispiele Darstellende Geometrie, Comelsen, 2002. [2] Bajraktari M. dhe Doçi I. Prezentime nga Grafika Inxhinierike, Prishtinë, 2014.
The ratio of theory and practice	Theory: 30%; Practice: 70%

Designed learning plan	
Week:	Lectures and exercises to be held
Week one:	Introduction to Engineering Graphics. Information of the course. Seminar tasks.
Week two:	Types of drawings. Standards. Standard numbers.
Week three:	Types of lines. Drawing formats. The proportion on technical drawing.
Week four:	Drawing of geometric constructions. Constructing lines and angles. Construction of arcs and tangents. Curve construction: ellipse, parabola, hyperbola, cycloid, spiral, helix.
Week five:	Technical letters. Types of writing. Symbols.
Week six:	Dimensioning. Dimensioning and quotation rules.

Week seven:	Materials in technical drawing. Quality of surfaces and signs of quality.
Week eight:	Intermediate I test
Week nine:	Projections. Types of projections. Isometric Projection and Perspectives.
Week ten:	Cutting. Object cutting in different planes.
Week eleven:	Drawing presentation. Sketching. Presentation of drawing. Presentation of details in three orthogonal projections.
Week twelve:	Presentation of objects in technical drawing with all elements. Different examples.
Week thirteen:	Point projections. Line projections. Design of curves.
Week fourteen:	Projections of objections. Cutting of objections.
Week fifteen:	Intermediate II test.
Academic policies and rules of conduct	
Regular attendance, maintaining the order and active engagement in dialogue during lectures and exercises is compulsory.	