

SYLLABUS

The basic course information:			
Faculty:	Faculty of Engineering and Informatics		
Title of the subject:	Engineering Graphics		
Level:	Bachelor		
Course Status:	Core		
Year of studies:	I		
Number of hours per week:	3		
Value of Credits - ECTS:	5		
Time / location:			
Course lecturer:	Prof. as. Ramadan Topuzi		
Contact details:	ramdan.topuzi@ushaf.net		
Course description:			
	<i>This course will inform students about how to draw various details using technical drawing standards.</i>		
Objectives of the course:			
	<i>The aim of this course is to provide students with basic knowledge of engineering graphics.</i>		
Learning outcomes:			
	<p>After the completion of this module, student 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 with practical exercises	3	15	45
Internship			
Contacts with teacher / consultations	1	7	7
Field exercises			
Midterm, seminars and projects.	2	2	4
Homework	3	5	15
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.			

Total			125
Teaching methodology:	<i>Lectures through presentations, exercises tasks and examples, seminars, discussions.</i>		
Assessment methods:	<p><i>The student can be evaluated in one of two ways of the assessment given below:</i></p> <p><i>1. Form 1: Assessment with colloquiums and project 2. Form 2: Assessment with the final exam. Form 1:</i></p> <p><i>In the first form of assessment "Assessment with colloquiums and seminar work", the student is assessed in four activities that are carried out during the lectures:</i></p> <ol style="list-style-type: none"> <i>1. Colloquium 1 (35%), individual assessment</i> <i>2. Colloquium 2 (35%), individual evaluation</i> <i>3. Class activity (10%), individual assessment</i> <i>4. Project (20%), individual or group assessment.</i> <p><i>Additional clarification:</i></p> <p><i>If the student in each activity above reaches the maximum points, then he will be evaluated with 100 points. Students who pass the exam according to form 1 of the assessment, are released from the obligation to take the final exam.</i></p> <p><i>Only if the student is not satisfied with the grade achieved according to form 1, then he can undergo the final exam to obtain a higher grade. Form 2:</i></p> <p><i>In the second form of evaluation, "Evaluation with the final exam", the student will undergo the exam which is held after the completion of the course lectures, and is organized in the exam deadlines, determined by the University senate.</i></p> <p><i>Through the final exam, the student can achieve a maximum of 80% of the total of 100 points.</i></p> <p><i>The rest of the 20% points must be completed by individual or group work in the Project, an activity carried out during the lectures.</i></p> <p><i>In Colloquium 1, Colloquium 2 and Final Exam, the assessment of students will be done through an assessment form, which must be completed individually by the student.</i></p> <p><i>The evaluation form will contain questions distributed proportionally with the lectures conducted during the semester, the course material.</i></p> <ul style="list-style-type: none"> <i>• The subjective questions will be of the type of written task that will be used to evaluate the student's understanding and abilities to apply the knowledge gained in the analysis, synthesis and evaluation of the</i> 		

	<p><i>problem, from the answers prepared by the student to the question presented.</i></p> <ul style="list-style-type: none"> • <i>Activity in the class - means the student's engagement in dealing with the issues discussed in the class, during the lectures.</i> • <i>Project (30%), individual or group assessment: it is an activity in which students apply the acquired knowledge in a concrete project. It is carried out by only one student or in a group of 2 or 3 students who are obliged to carry out the activity, document it and present it to the subject professor.</i> <p><i>For the form of realism and documentation of the activity, all members of the group will be evaluated with the same point (10%), while the evaluation of the presentation skills of the activity is individual and includes 10%.</i></p> <p><i>Rating:</i></p> <p><i>91-100 points - graded 10 (ten)</i></p> <p><i>81-90 points - graded 9 (nine)</i></p> <p><i>71-80 points - grade 8 (eight)</i></p> <p><i>61-70 points - graded 7 (seven)</i></p> <p><i>51-60 points - grade 6 (Six)</i></p> <p><i>0-50 points – The student repeats the exam.</i></p>
Literature	
Basic Literature:	<p><i>[1] Bajraktari M. dhe Doçi I. Grafika Inxhinierike, Prishtinë, 2012.</i></p> <p><i>[2] K.C. John, Engineering Graphics for Diploma, PHI Learning Private Limited, 2009.</i></p> <p><i>[3] Bajraktari M. dhe Doçi I. Vizatimi Teknik, Prishtinë, 2010</i></p>
Supplementary Literature:	<p><i>[1] Hoischen H. Technisches Zeichnen, Grundlagen, Normen, Beispiele Darstellende Geometrie, Comelsen, 2002.</i></p> <p><i>[2] Bajraktari M. dhe Doçi I. Prezetime nga Grafika Inxhinierike, Prishtinë, 2011.</i></p>
Designed learning plan:	
Week	Lectures and exercises to be held
Week one:	<i>Introduction to Engineering Graphics. Information of the course. Seminar tasks.</i>
Week two:	<i>Types of drawings. Standards. Standard numbers.</i>
Week three:	<i>Types of lines. Drawing formats. The proportion on technical drawing.</i>
Week four:	<i>Drawing of geometric constructions. Constructing lines and angles. Construction of arcs and tangents. Curve construction: ellipse, parabola, hyperbola, cycloid, spiral,</i>

	<i>helix.</i>
Week five:	<i>Technical letters. Types of writing. Symbols.</i>
Week six:	<i>Dimensioning. Dimensioning and quotation rules.</i>
Week seven:	<i>Materials in technical drawing. Quality of surfaces and signs of quality.</i>
Week eight:	<i>First (I) assessment</i>
Week nine:	<i>Projections. Types of projections. Isometric Projection and Perspectives.</i>
Week ten:	<i>Cutting. Object cutting in different planes.</i>
Week eleven:	<i>Drawing presentation. Sketching. Presentation of drawing. Presentation of details in three orthogonal projections.</i>
Week twelve:	<i>Presentation of objects in technical drawing with all elements. Different examples.</i>
Week thirteen:	<i>Point projections. Line projections. Design of curves.</i>
Week fourteen:	<i>Projections of objects. Cutting of objects.</i>
Week fifteen:	<i>Second (II) assessment</i>

Academic policies and rules of conduct:

Regular attendance of lectures and exercises is necessary, as well as active participation with discussion and solution of tasks. Not impeding the progress required for learning using mobile phones turned off or in silent mode.