	UNIVERSITY OF EAST SARAJEVO Faculty of Technology Zvornik									
EXISCE		Study programme: Chemical Engineering and Technology								
			Cycle I			Year I				
			ng Drawing							
Department										
Course code			Course status			Semester		ECTS		
	-005-1				pulsory I			4		
Teacher Bojan Me			to, PhD, Assoc. Prof.							
assistant	Boj	an Međo, Pł	nD, Assoc. P	rof.						
	Number of hours/ teaching wor						(in hours per	er Student workload coefficient S₀		
week) Audi		ory Laboratory			semester) Auditory		Laboratory	,		
Lectures	exercis	-	xercises	Lecture	es	exercises	exercises	30		
2 Total tagah	1 ing workd	and (in hour	0	50		25 Total atudant	0 warklaad (in h	1.67		
		5 + 0*15 = 4	s, per semes 5 hours	ster)				kload (in hours, per semester) 5*1.67 + 0*15*1.67) = 75 hours		
				orkload 45	+ 75 =	120 hours per se				
Learning outcomes Prerequisites	2. I rep 3. (loca 4. U pro 5. F	 Technical education with an aim to get familiar with the current state of engineering disciplines and corresponding literature. Enabling the student, based on the actual mechanical element geometry, to understand its spatial representation and to form technical drawings. Communication with engineers and technicians, regardless of their technical field and geographical location, by using the technical drawings. Understanding and learning different technical regulatory documents and standards related to industrial production. Foundation for problem solving in the field of design and construction in process and chemical industry, as well as forming and reading/understanding of the project documentation. 								
Teaching metho	ds Leo	Lectures, auditory exercises.								
Syllabus outli per week	ne	 Orthogonal projections. Projecting onto one, two and three planes. Position assignments. Point and line. Two lines. Point in a plane. Line and plane. Two planes. Methods of transformation and rotation. Metric assignments. True sizes of line segments and plane figures. Projections, sections and mesh of a prism. Projections, sections and mesh of a pyramid. Special sections. Projections, sections and mesh of a cylinder. Projections, sections and mesh of a cylinder. Projections, sections and mesh of a cone. Axonometric projections (onto two, three and more plains). Technical curves in the plain and their construction. Technical geometry. Technical lettering. Standards for technical drawings in industry. Projections of specific elements of process equipment. Flow (process) diagrams in chemical and process industry. Views and sections. Rules for projections of models. Dimensioning, marking tolerances and surface texture on drawings. Technical (workshop) drawing. Assembly drawing. Drawing of welded and threaded joints. Drawing of specific power transmissions. Drawing of simple and more complex pipe installations and pipe elements in chemical and process industry. Tolerances. Types of fits. Position and shape tolerances. Basics of application of computers in design and construction. Engineering and computer graphics. Programming languages in technics. 								

		Obligatory reading							
Author		Title, publisher	Year	•	Pages				
Pejović, B.		Zbirka zadataka iz inženjerskog crtanja	2004		1-283				
		Additional reading							
Author		Title, publisher	Year	•	Pages				
Žepinić, C.		Tehničko crtanje sa nacrtnom geometrijom Tehnološki fakultet, Zvornik	2000)	1-298				
Ljubojević, R., Stevanović, M.		Inženjersko crtanje, Tehnološko metalurški fakultet Beograd	1999)	1-162				
		Type of student evaluation	Grade points	Percentage					
	Pre-exam obligations								
Ohlinations		Atter	6	6%					
Obligations, assessment		Obligatory (program) assig	29	29 %					
methods and		Mid-term test/Colloc	15	15 %					
grading system		Mid-term test/Collog	15	15 %					
grading system		Mid-term test/Colle	5	5 %					
	Final examination								
		Final examination (oral/	30	30 %					
	Total		100	100 %					
Webpage	www.tfzv.ues.rs.ba								
Date	2023								