## Course title: Descriptive geometry

<b>Course Basic Information</b>				
Academic Unit:	Faculty of Civil	Engineering		
Course Name:	Descriptive geometry			
Level:	BA			
Course Status:	Mandatory			
Year of Study:	1st Year   2nd	Semester		
Number of Hours per Week:	2+2			
ECTS Credits:	3 ECTS			
Time /Venue:	According to timetable			
Course Teacher:	Prof. Asoc. Dr. Arta Basha-Jakupi			
Contact Details:	arta.jakupi@uni-pr.edu			
Course Description:	Technical Descriptive Geometry is a science which enables a much easier and simpler presentation of any three-dimensional body, by providing two-dimensional drawings which offer a much clearer image and accurate drawing. Descriptive Geometry represents that branch of geometry, where the volumetric forms of objects and their geometric relevant laws are studied by means of projections. Bringing together the theory and practice of descriptive geometry with engineering practice is done with the help of graphical presentation methods, at the same time increasing the design and constructive ability among engineers.			
Course Goals: Expected Learning Outcomes:	Basic preparation for professional and technical presentation of three dimensional forms, architectural designs as well as development of capabilities to understand three dimensional space and the spatial thinking in context of articulating elementary concepts in the profession of architecture. The course belongs in the group of preparatory subjects and enables gaining of basic knowledge for further studies in the subject of architecture and spatial			
	planning.	-	-	
Student Workload (should be in	n compliance w	vith student's Lear	nign Outcomes)	
Activity	Hours	Day/ Week	Total	
Lectures	2	15	30	
Theory/ Lab Work	2	15	30	
Practical Work	1	2	2	
Contact Hours with Teacher /Consultations during Office Hours	0.5	6	3	
Field Work				
Colloquium, Seminars	1.5	2	3	

Homework		0.5	6	3	
Self-study Time					
(in the Library or at Home)					
Final Exam Preparation				4	
Evaluations (Tests, Quiz, Final					
exam)					
Projects, Presentations, et	2.				
Total				75	
Teaching Methodos:		Lectures + Exercises			
Assessment Methods:		Evaluation of home assignment and models 10 %			
		First Assessme	ent 45%		
		If students fail	s on any of two firs	t avaluations he needs	
		to take the Fin	al Examl90%		
Primary Literature:		1. Flamur DOLI, Gjeometria Deskriptive, Prishtinë, 1990			
Additional Literature:		1. An Elementary Course in Descriptive Geometry,			
		Solomon W	/olf, 2007		
		2. B. QURÇIQ, Vizatim teknik me Gjeometri deskriptive,			
		All other releva	183, ant literature on the	a taught subject	
Course Plan:					
Week	Title of	the Lecture			
Week 1:	Week 1: Introduction Projections methods Projection of point in a pl				
	Projectio	on of point in two	o planes - quadrant	. The projection of the	
	point in t	the respective q	uadrants		
Week 2:	Projectio	on of Point in Th	ree Planes-Octants	, The projection of the	
	Point in t	the respective O	ctant.		
Week 3:	Line - Projections of Line				
Week 4:	Projections of Line in Arbitrary and Special Positions.				
Week 5:	Line Inte Projectio	ersection with	the Projection Pla	anes, Line Imprint in	
Week 6:	Projectio	ons of the plane	with arbitrary posit	ion. Proiections of the	
	plane wi	th special position	on.	,	
Week 7:	Projectio	ons of the plan	ie in which lays a	line and one point.	
	Projectio	ons of the plane	given with line in p	particular position. The	
	parallels	the plane. Horiz	ontal plane. Fronta	l plane. Side Plane.	
Week 8:	Projectio	ons of plane giv	en by the Triangle	. The use of first and	
Wook 9:	second parallel.				
VVEEK J.	Projectio	ons of plane give	n with two narallel	lines.	
Week 10:	Projectio	on of two interse	ected planes. Interse	ection of the line with	
	arbitrary	plane.			

	Transformation of the point. Transformation of the line.
	Transformation of the triangle.
Week 12:	Rotation. The rotation of the point. The rotation of geometric
	shape. Determining the true dimension of the line, and the angles
	created from the line with projection planes.
Week 13:	Method of falling-fitting of the arbitrary and projection plane.
Week 14:	Intersection of polyedric bodies. Intersection of the pyramid with
	the projection plane.
Week 15:	Intersection of the pyramid with arbitrary plane. Drafting the
	envelope of the pyramid

## Designed teaching plan

Regular attendance of lectures and exercises Mobile phones need to be switched off during class. Attending the class in time and concerted work on assignments are required