

UNIVERSITETI "KADRI ZEKA" UNIVERSITY

Zija Shemsiu, 60000, Gjilan, Kosovë www.uni-gjilan.net tel: 0280-390-112

<u>SYLLABUS</u> <u>Course: Elementary geometry</u>

Basic information of the course					
Academic unit:	FAS				
Course Title:	Elementary geometry				
Level:	Bachelor				
Program:	Mathematic Education	1			
Course status:	Obligatory				
Academic year:	2019/2020				
Year of study:	Year III, Semester V				
Number of hours per	3+3				
Credits – EC15:	7 ECTS				
Timer / Location:					
Professor of subject:	Prof. Ass. Dr.				
Contact details:					
Description, Objectives and expected resultes					
Course description:	Contents of the course	Elemental ge	ometry includes:	axioms of incidence etc;	
	congruency; construction of figures in the plan; isometric transformations;				
	similarity; inversion.				
Objectives of the course:	Elementary geometry aims to integrate training of professionals in the field of				
	mathematics education bachelor studies.				
	The course objective is to acquaint students with the basics of knowledge in				
	Elementary geometry. Another goal is to develop the skills and abilities of				
	students so that they successfully solve concrete problems in field of				
	mathematics whenever required implementation Elementary geometry.				
Expected learning	After the successful completion of Elementary Geometry student will be able				
outcomes:	to:				
	• To be familiar with the construction of Euclidean geometry and from these				
	knowledges they are able to solve various problems.				
	• Recognize and understand with congruence and construct plane figures.				
	• Recognize and understand isometric transformations and similarity.				
	 Recognize and under 	stand the inve	ersion.		
Student contribution					
Activity		Hours	Day / Week	Total	
Lectures		3	15	45	
Theoretical exercises / laboratory		2	15	45	
Contacts with teacher / consultations		1	15	15	

Collocfiums, seminars		3	2	6		
Homework		1	15	15		
Self-learning time student	(at the library or at	1	15	15		
home)						
Final preparation for the exam		2	15	30		
Projects, seminars, presentations, etc.		3	1	9		
Total				180		
180:25≈7 ECTS.						
Teaching methodology and assessment methods						
Teaching methodology:	Regular lessons, lectures, consultations, discussions, individual independent					
	work, term papers (homework), presentations.					
Methods of assessment:	The exam consists of a written part and the oral part.					
	The assessment is based on the following activities:					
	Participation and engagement in hours (10%)					
	(Koll.) Lest 1-40% (written examination) (Koll.) Toot 2 40% (written examination)					
	(Koll.) 1 est 2-40% (written examination) Seminar papers (individual independent work) - 10%					
	Final exam:					
	80% (for those who do not pass colloquium).					
	Points Score					
	91-100 10					
	81-90 9					
	71-80 8					
	61-70 7 51 (0) (
T the sector of	51-60 6					
Literature Des literature	T • • • • • • •			10		
Base literature:	Ligjerata të autorizuara nga profesori, Gjilan. 2019.					
	H. S. M. Coxeter, The real projective plane, Springer 1993					
	• R. Rosenbaum, Introduction to projective geometry and modern algebra,					
	Addison-Wesley 1965					
	• r. Ayres, Schaum's Outline of Theory and Problems of Projective Commetry, McCrow Hill, 1967					
Designed teaching plan	Geometry, wiedra	w-11111, 1907				
Week	The lecture to be held					
I wook (Englideen Coometry 7	The heate com	ants of soomstary	in plan (paints and		
1 - WECK :	straight lines). The avi	ama of incide	repts of geometry	in pian (points and		
II - week ·	The evicement of continui	onis or: meru ity porolloliar	n (Plaifar's aviam	uence,		
III week	Congruonee (Icometric	Thonsformo	fiong Deletionshi	la) n of Figuro		
<i>III - WCC</i> A .	Congruence Segment	Congruence	Congruence of A	pol riguie		
	Triangles)	Congi dence,	Coligi delice of Al	igeis, congi uence		
IV- week ·	Angles on the transver	real (The sum	of angles in the t	riangle Triangle		
	inequalities. Rectangle	. Parallelogra	m. The character	ristic points of triangle.)		
V- week:	Application of congrue	ence in circle	Central angle and	d nerinheric angle.		
	Tangential rectangle et	tc.	Contrai ungit alle	· por phone ungles		
VI- week	Construction of figures in plane.					
VII-week	The first colloquium					
VIII-week	Isometric transformation (direct and indirect isometric transformations etc).					
···		(411				

IX-week	Isometric transformation (central rotation, central symmetry, translation	
	etc.)	
X-week	Similarity (thales theorem, homothety, transformation of similarity etc)	
XI-week	Similarity (Apollonius's circle, some characteristic theorems. Etc.)	
XII-week	Definition and properties of inversion.	
XIII-week	Apollonius's problem.	
XIV-week	Example and problems about inversion.	
XV-week	The second colloquium	
Academic policies and rules of etiquette:		
Regular attendance of students assessed with 10 points.		

Regular attendance of students assessed with 10 points, - Students are free to ask questions and active participation in all teaching activity.

- They are not allowed cell phones, late arrival or departure from the class without reason.

- Plagiarism and copying in exams are penalized under the statute and other regulations of the university.

- The Code of conduct applies to both students and teachers.