

UNIVERSITETI "KADRI ZEKA" UNIVERSITY

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<u>SYLLABUS</u> <u>Course: Analytic geometry 1</u>

Basic information of the course			
Academic unit:	FAS		
Course Title:	Analytic geometry 2		
Level:	Bachelor		
Program:	Mathematic Education		
Course status:	Obligatory		
Academic year:	2019/2020		
Year of study:	Year II, Semester IV		
Number of hours per	3+2		
week:			
Credits – ECTS:	7 ECTS		
Timer / Location:			
Professor of subject:	Prof. Ass. Dr.		
Contact details:			
Description, Objectives and	l expected resultes		
Course description:	Contents of the course include: general theory of curves in plane; study of second-degree curves by invariants; plan and line in the space; surface of second degree.		
Objectives of the course:	 Analytic geometry 2 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 Analytic geometry 2. 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 Analytic geometry 2. 		
Expected resultes:	 After successful completion of the course Analytic geometry 2, students will be able to: Recognize and understand meaning of general theory of curves in plane and implement this knowledge by solving various problems. Recognize and understand study of second-degree curves by invariants' Recognize and understand the plan and line in the space. Recognize and understand surface of second degree. 		
Student contribution			
Activity	Hours Day / Week Total		

Lectures	3	15	45
Theoretical exercises / laboratory	2	15	30
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			165
165:25≈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 assessment is based on the following activities:		
	Participation and engagement in hours (10%)		
	(Koll.) Test 1-40% (written examination)		
	(Koll.) Test 2-40% (written examination)		
	Seminar papers (individual independent work) - 10%		
	Final exam:		
	80% (for those who do not pass kollokfiumet).		
	Points Score		
	91-100 10 81-90 9		
	71-80 8 61-70 7		
	51-60 6		
Literature	51-00 0		
Base literature:	Ligjerata të autorizuara nga profesori, Gjilan. 2019.		
	Gjeometria Analitike, Idriz Berani. Prishtinë 1986.		
	Orgest Zaka, Gjeometria Analitike, Tiranë, 2018.		
Designed teaching plan:			
Week	The lecture to be held		
I - week :	Curves in plane and their equations.		
II - week :	Conic section and their common properties		
III - week:	Element of conic section.		
IV- week:	Invariants of second degree of polynomial.		
V- week:	Determination of canonic equations of second degree with invariants.		
VI- week	Criteria of circle equation, hyperbole equation etc		
VII-week	The first colloquium		
VIII-week	Vectoral equation of plane. Normal equation of plane etc.		
IX-week	Reciprocal position of two plans.		
X-week	Vectoral equation of line. Equation of line through one point etc.		
XI-week	General equation of line and transformation in canonic form.		
XII-week	Normal equation of line, reciprocal position of lines et.		
XIII-week	Angel between two lines. Reciprocal position of plane and line.		

XIV-week	Cylindric, conic, surface,	
XV-week	The second colloquium	
Academic policies and rules of etiquette:		
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.