UNIVERSITETI "KADRI ZEKA" UNIVERSITY

Zija Shemsiu, 60000, Gjilan, Kosovë

www.uni-gjilan.net tel: 0280-390-112

SYLLABUS

Course: **Introduction in mathematics**

Basic information of the course	
Academic unit:	**FAS**
Course Title:	**Introduction in mathematics**
Level:	**Bachelor**
Program:	**Mathematic Education**
Course status:	**Obligatory**
Academic year:	**2019/2020**
Year of study:	**Year I, Semester I**
Number of hours per week:	**3+2**
Credits – ECTS:	**7 ECTS**
Timer / Location:	
Professor of subject:	**Prof. Ass. Dr.**
Contact details:	
Description, Objectives and expected resultes	
Course description:	**Contents of the course include: Rational algebraic expressionsc; linear equations and inequations; linear functions; kuadratic functions; exponencial functions, logaritmic functions; trigonometric functions, analitic geometry in the plan.**
Objectives of the course:	***Introduction in mathematics*** **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 mathematic* in order to have a sustainable base for studies.** **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 *of elementary Mathematic*..**
Expected learning outcomes:	**After successful completion of the course *Introduction in mathematics*, students will be able to:** • **recognized with the Rational algebraic expressionsc, linear equations and inequations; linear functions and understanding them and to implement this knowledge in solving various problems.** • **recognize the concept and understanding of kuadratic functions; exponencial functions, logaritmic functions; trigonometric functions, hyperbolic functions etc.** • **be introductory concept of geometrical shapes.**

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 home)	1	15	15
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 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.) 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 colloquiums). Points Score 91-100 10 81-90 9 71-80 8 61-70 7 51-60 6
Literature	
Base literature:	• **Hyrje ne matematikë-ligjerata të autorizuara, 2019-Gjilan.** • **Isak Hoxha, permbledhje detyrash nga matematika elementare, UP, Prishtinë, 2009** • **Muharrem Berisha, Mosbarazite dhe mosbarazimet, 2004, Prishtinë** • **Isak Hoxha, permbledhje detyrash nga matematika elementare, për përgatitjen e provimit pranues UP, Prishtinë, 2002** • **Uvod u matematiku M. Klaricic Bakula, S. Braic Split, 2011/2012**
Designed teaching plan:	
Week	The lecture to be held
I - week :	**Rational algebraic expressionsc; linear equations and inequations**
II - week :	**Linear and quadratic functions. (proporties)**
III - week :	**Irational equality and inequalities**
IV - week :	**Exponencial and logaritmic functions. (properties)**
V - week:	**Exponencial and logaritmic-Equalities and inequalities**
VI- week	**Sistems of linear, exponencial and logaritmic of equations and inequations**

	with two wariables.
VII-week	**The first assessment.**
VIII-week	**Trigonometry of right triangels**
IX-week	**Trigonometric functions (sin, cos, tang, cotg)**
X-week	**Trigonometric functions (properties, equations, inequations)**
XI-week	**Invers trigonometric functions**
XII-week	**Hyperbolic functions (sinh, cosh, tanh etc)**
XIII-week	**Geometric shapes in plane**
XIV-week	**Geometric shapes in space**
XV-week	**The second assessment.**
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.**	