

UNIVERSITETI "KADRI ZEKA" UNIVERSITY

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

<u>SYLLABUS</u> Course: Discrete Mathematics

Basic information of the c	ourse					
Academic unit:	FAS					
Course Title:	Discrete Mathematics					
Level:	Bachelor					
Program:	Mathematic Education	l				
Course status:	Electiv					
Academic year:	2019/2020					
Year of study:	Year II, Semester IV					
Number of hours per week:	2+2					
Credits – ECTS:	7 ECTS					
Timer / Location:						
Professor of subject:	Prof. Ass. Dr.					
Contact details:						
Description, Objectives and	Description, Objectives and expected resultes					
Course description:	Contents of the course include: Special Sequences; Some special classes of					
	matrix; Combinatoric					
Objectives of the course:	Discrete Mathematics aims to integrate training of professionals in the field of					
	science mathematics education bachelor studies.					
	The course objective is to acquaint students with the basics of knowledge in					
	<i>Discrete Mathematics</i> . 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 <i>Discrete Mathematics</i> .					
Expected learning	After successful completion of the course <i>Discrete Mathematics</i> , students will be able to:					
outcomes:						
	• To implement knowledge about, Special Sequences and in solving various problems in discrete mathematics and generally in mathematics.					
	• recognize the concept and understanding of, Meaning of Some special classes of matrix.					
	recognize and unde	erstanding Co	mbinatoric config	gurations.		
Student contribution						
Activity		Hours	Day / Week	Total		
Lectures Theoretical exercises / laboratory		2 2	15 15	<u> </u>		
Contacts with teacher / consultations			15			
Contacts with teacher / consultations		1	15	15		

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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	3	9		
Total				150		
150:25≈5 ECTS.						
Teaching methodology and assessment methods						
Teaching methodology:	Regular lessons, lectures, consultations, discussions, individual independent					
	work, term papers (homework), presentations.					
Methods of assessment:						
		he assessment is based on the following activities:				
	Participation and engagement in hours (10%) (Kell) Test 1 40% (written examination)					
	 (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:	-	o Gjonbalaj-J	Prishtinë 2011. Ma	atematika III drejtimi		
	komjuterikës.					
	• Matematika diskrete me 300 detyra te zgjidhura, Islam Shehu; Naim L.					
	Braha, 2012.					
	James Aspnes, Notes on Discrete Mathematics, 2018.					
	Vasillaq Kedhi, Tiranë 2000, Grafet dhe rrjedhat në grafe.					
Designed teaching plan:						
Week	The lecture to be held					
I - week :	Generic function. Recuquerent sequences.					
II - week :	Numbers of: Stirlingov - the second and first type, Belov,					
III - week:	Numbers of: Euler, Bernul, Kosiu. Convex sequences.					
IV - week :	Congruence classes, perfect differences of sets.					
V- week:	Matrix:Binary, Hadamar, Stochastic.					
VI- week	Permutational matrices.					
VII-week	The first colloquium.					
VIII-week IX-week	Permanent matrices.					
X-week	Combinational Configurations. Examples.					
XI-week	Block schemes. Examples.					
XII-week	Unstructured incomplete block schemes. Steiner system.					
XIII-week	Stemer system. Symmetric block schemes.					
XIV-week	Formation of block schemes					
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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.				