Identification	Subject	MATH 223, Mathematics for eleme	ntary teachers-1, 6 ECTS		
	Department	Mathematics			
	Program	Undergraduate			
	Term	Spring 2024			
	Instructor	Aida Asgarova			
	E-mail:	aidaasgaroya@gmail.com			
	Phone:	(055) -612-05-50			
	Classroom/hours	Tuesday: 14:10-15:40, 15:50-17:20			
Prerequisites	None				
Language	English				
Compulsory/Elective	Required				
Required textbooks	Core Textbooks: 1. California Go Math!, Grade 5, Juli K. Dixon, Matthew R.				
and course materials	Larson, Edward B. Burger, Martha E. Sandoval-Martinez, Steven J. Leinwand, 2015				
	by Houghton Mifflin Harcourt Publishing Company				
	2. International Mathematics for Middle year 4, Alan McSeveny, Rob Conway, Steve Wilkes, Michael Smith 2009				
	3. Complete math for Cambridge IGCSE, David Rayner, Ian Bettison, Mathew Taylor 2018				
Course outline	Topics include:				
	2) Natural Numbers (divisibility rules GCF and LCM)				
	3) Operations with Fractions				
	4) Operations with decimals				
	5) Angles parallel lines				
	6) Customary units of measurements				
	7) Ratio and Proportion				
	8) Triangles (Area Triangle inequality)				
	9) Right triangles (Pythagoras theorem)				
	10) Circle (Area and circumference)				
	10) Circle (Area and circuillerence) 11) Equations with single variables				
	11) Equations with single variables				
	12) Quadrilaterais and their areas				
	15) Inree-dimensional figures				
	14) Volume of 5D snapes 15) Statistics (Massa modion and mode)				
	15) Statistics ( N	reall, median and mode)			
Course objectives	The concepts of Sets (Venn diagrams), Natural Numbers (divisibility rules, GCF and				
	LCM), Operations with Fractions, Operations with decimals, Angles, parallel lines,				
	Customary units of measurements, Ratio and Proportion, Triangles (Area. Triangle				
	inequality), Right triangles (Pythagoras theorem), Circle (Area and circumference),				
	Equations with single variables, Quadrilaterals and their areas, Three-dimensional				
	figures, Volume of 3	D shapes, Statistics (Mean, median a	nd mode).		
Learning outcomes	By the end of the co	e end of the course the students should be able:			
	To do op	perations with fractions			
	To solve some simple and hard problems in geometry				
	To simp	To simplify hard expressions			
	• To solve	e some problems in statistics	[		
l eaching methods	Lecture		X		
	Group discussion	20	X		
	Course naner	50	X		
1	- Source puper		Λ		

		Others	Others				
Eval	uation	Methods	Date/deadlines	Percentage (%)			
		Midterm Exam		30			
		<b>Class Participation</b>		5			
		Quizzes		20 (3 quizzes)			
		Activity		5			
		Final Exam		40			
		Total		100			
Policy		<ul> <li>Preparation for of the structure of this of the class extremely iminitroduced in the text. with them before class the lecture, you should from the end of the ch Throughout the seme: These review session periods.</li> <li>Quizzes and exar Quizzes may be given to make-up quizzes.</li> <li>Withdrawal (pas This course strictly ff Applied Science. The least 60% to pass. In the following term or the following term or the following term or the following term or the automatically get zero.</li> <li>Professional</li> </ul>	<ul> <li>Preparation for class</li> <li>Preparation for class</li> <li>The structure of this course makes your individual study and preparation outside the class extremely important. The lecture material will focus on the major points introduced in the text. Reading the assigned chapters and having some familiarity with them before class will greatly assist your understanding of the lecture. After the lecture, you should study your notes and work relevant problems and cases from the end of the chapter and sample exam questions. Throughout the semester we will also have a large number of review sessions. These review sessions will take place during the regularly scheduled class periods.</li> <li>Quizzes and examinations         Quizzes may be given unannounced throughout the term. There will be no make-up quizzes.         Withdrawal (pass/fail)         This course strictly follows grading policy of the School of Engineering and Applied Science. Thus, a student is normally expected to achieve a mark of at least 60% to pass. In case of failure, he/she will be required to repeat the course the following term or year.     </li> <li>Cheating/plagiarism</li> <li>Cheating or other plagiarism during the Quizzes, Mid-term and Final Examinations will lead to paper cancellation. In this case, the student will automatically get zero (0), without any considerations.     </li> </ul>				
	<ul> <li>The students shall behave in the way to create favorable academic an professional environment during the class hours. Unauthorized discussions ar unethical behavior are strictly prohibited.</li> <li>Ethic</li> <li>Use of any electronic devices is prohibited in the classroom. All devices should be turned off before entering class. This is a university policy and violators will be reprimended accordingly.</li> </ul>						
	Students should not arrive in late to class!						
	Tentative Schedule						
Ā	Date/Dav			Textbook/			
/ee	(tentative)		Topics	Assignments			
*	(cintative)			rissigninents			
1	13.02.24	• Sets (Venn diagra	ms)	[2] 280-288			
	13.02.24	• Operations on sets					
2	20.02.24	Natural Numbers (	divisibility rules, GCF and LCM	M) [1] ch.1, 2			

	20.02.24	Problem solving	
3	27.02.24	Operations with Fractions	[1] 250-299
	27.03.24	Problem solving	
4	05.03.24	Operations with decimals	[1] 107-147
	05.03.24	Problem solving	
5	12.03.24	Angles, parallel lines	<b>Ouiz</b> (6 pts)
	12.03.24	Problem solving	[2] 294-299
6	19.03.24	<ul> <li>Customary units of measurements</li> </ul>	[1] 425-457
	19.03.24	Problem solving	
7	26.03.24	Ratio and Proportion	[2] 104-107
	26.03.24	Problem solving	[-]
8	02.04.24	• Triangles (Area. Triangle inequality)	[1] 175-178
	02.04.24	Problem solving	
9	09.04.24	Midterm Exam	[2]108-117,
	09.04.24	• Right triangles ( Pythagoras theorem)	158-165
10	16.04.24		Quiz (7 pts)
	16.04.24	• Circle (Area and circumference)	
		<ul> <li>Problem solving</li> </ul>	[2]67-76,115-
			134
11	23.04.24	Equations with single variables	[1] 244-261
	23.04.24	Problem solving	
12	30.04.24	• Quadrilaterals and their areas	[2] 473-476
	30.04.24	Problem solving	
13	07.05.24		Quiz (7 pts)
	07.05.24	Three-dimensional figures	
		Problem solving	[1] 477-480
14	14.05.24	Volume of 3D shapes	[2] 232-262
	14.05.24	Problem solving	
15	21.05.24	• Statistics (Mean median and mode)	[1] 468-482
	21.05.24	<ul> <li>Problem solving</li> </ul>	[1] 700-702
	TBA	Final Exam	

This syllabus is a guide for the course and any modifications to it will be announced in advance.