



SYLLABUS SUBJECTS

Basic information about the subject	
Academic unit	Faculty of Education
Subject name	MATHEMATICS TEACHING METHODOLOGY II
Name of the study program	Basic program
Level of study	Bsc
Case status	Mandatory
Year	IV
Weekly pool of hours	3+2
Number of ECTS points	7
Place and time of teaching	144
Teacher	Prof.dr. Fevzi Berisha
Contact information	fevzi.berisha@uni-prizren.com
Description of the subject	This course covers the part of mathematics methodology that concerns the basic knowledge of mathematical concepts for work in the lower grades of elementary school. The areas studied are: mathematics as a subject, historical development, mathematics education, subject, definition, goals and tasks of mathematics teaching, psychological and logical foundations of mathematics, thought operations, proofs and proofs, reasoning, motivation for learning mathematics, teaching principles, measurement and measurement units.
Objective of the course	The aim of the course is to learn about the basic characteristics of mathematics teaching in classroom teaching and to think critically, to plan and prepare mathematics teaching in classroom teaching with quality and creativity, applying modern knowledge of didactics and mathematics teaching methodology.
Learning outcomes	- Recognize the importance of learning mathematics - Describe the cognitive characteristics of the process of learning mathematics - Define and encourage modern standards of mathematical competence



	-Define and apply basic principles in teaching mathematics - Define teaching methods and methodical forms of work in teaching mathematics - Apply modern teaching aids and aids in the initial teaching of mathematics - Differentiate between traditional and modern teaching of mathematics in theory and in practice - Build the need for lifelong learning and improvement in the methodology of initial mathematics teaching		
workload (align with learning outcomes)			
Activities	Hours	Day/Sunday	In total
Lectures	3	15	45
Theoretical / laboratory exercises	2	15	30
Practical work	-	-	-
Consultations with the teacher	1	15	15
Field exercises	-	-	-
Colloquium/seminars	2	2	4
Homework	2	5	10
Independent student work time (in the library or at home)	1	15	15
Final preparation for the exam	2	4	8
Time spent on evaluation (tests, course, final exam)	2	4	8
Projects, presentations, etc.	3	5	15
In total			150 hours (7 ECTS)
Teaching methodology	Lectures, discussions, exercises, homework, consultations, colloquiums, exams.		
Valuation methodology	Colloquiums, Homework and seminar work, learning activity, Final grade. Colloquiums Two colloquiums, each with a maximum number of points		



	of 60; exams are written and oral Homework and seminar work Two homework assignments (which will be graded) will be assigned, one in the period before the first colloquium and one before the second colloquium. They will be tasks of the same type as those that will be done in the exercises. The submission deadline is one week. The maximum number of points for each task is 10 points. Assignments are optional. Those who do not choose them will receive zero points. Classroom activity Tasks for independent solving will be given regularly during exercises, and occasionally during lectures. Students who successfully solve these tasks receive 5 points for each task. The maximum number of points that can be collected in this part is 20. With the collected 10 points, students will have the opportunity to be exempted from the final assessment. Final test The exam is written and oral; also checks the understanding of the content covered in the lectures. The requirement for access to the final exam is at least 50 points collected on two colloquiums, assignments and teaching activities. The maximum possible number of points that can be obtained in the final exam is 40 points. Students who collect at least 10 points through teaching activities are not required to take the final exam, but can receive a grade based on two periodic colloquiums, assignments and teaching activities. Remedial exam Assessment can be done at most in one of the colloquiums or the final exam. After the second colloquium, students can choose which colloquium they want to improve their scores on. Students who are not satisfied with the result of the final assessment and who did not pass the remedial colloquium as stated can take the remedial exam of the final exam. This test will simultaneously be the final exam for students who requested a knowledge check at one of the two colloquiums. Final grade Points from the first colloquium (max. 60 points), second colloquium (max. 60 points), homework solutions (max. 20 points), class activities (max. 20 points) and final exam (max. 40 points) are collected. (Students who are exempt from the final exam, points will be collected only from the
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	first four components. grade: > 90% grade 10; > 80% grade 9; > 70% grade 8; > 60% grade 7; >= 45% grade 6.
Literature	
Basic literature	Mathematics teaching methodology, Risto Malčeski, Skopje 2011.
Additional reading	- Mathematics teaching methodology, Ruža Tomić, Tuzla 2009 - Authorized lectures - Materials from the Internet

Syllabus :		
Sunday	Lectures/ Teaching unit	Exercises
<i>First Sunday</i>	Mathematics - scientific discipline and subject	Calculation exercises
<i>Second Sunday</i>	History of some symbols and terms used in elementary mathematics	Calculation exercises
<i>Third Sunday</i>	Subject and definition of mathematics. Mathematics as a teaching subject	Calculation exercises
<i>Fourth Sunday</i>	Mathematics teaching methodology as a scientific and study discipline	Calculation exercises
<i>Fifth Sunday</i>	Psychological and logical foundations of mathematics teaching	Calculation exercises
<i>Sixth Sunday</i>	Theory of thought development	Calculation exercises
<i>Seventh Sunday</i>	And colloquium	Exam
<i>Eighth Sunday</i>	Thought operations	Calculation exercises
<i>Ninth Sunday</i>	Mathematical term	Calculation exercises



<i>Tenth Sunday</i>	Mathematical reasoning and proof	Calculation exercises
<i>Eleventh Sunday</i>	Proof and evidence	Calculation exercises
<i>Twelfth Sunday</i>	Motivating and encouraging to learn mathematics	Calculation exercises
<i>Thirteenth Sunday a</i>	Teaching (didactic) principles in elementary mathematics teaching	Calculation exercises
<i>Fourteenth Sunday</i>	A methodical approach to studying the content of measurement and measurement units	Calculation exercises
<i>Fifteenth Sunday</i>	Colloquium II	Exam
Academic policy and code of conduct		
Students will regularly attend classes and contribute to the collegial and professional atmosphere, respecting the Statute of the University of Prizren and other rules of the University and Faculty. Specifically, students will not engage in behavior that constitutes plagiarism, unauthorized collaboration, copying tests from others or allowing others to copy a test, cheating, or using any method of cheating on a test or exam. Likewise, the use of mobile phones or other electronic devices that interfere with the learning process is prohibited. Regular attendance is mandatory.		