SYLLABUS

1. Course title:

MATHEMATICS TEACHING METHODOLOGY II

2. Code:

3. Cycle of study:

1

4. ECTS credits:

5

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

NO

7. Class restrictions:

NO

8. Duration / semester:

1 8

9. Weekly contact hours:

9.1. Lectures: 3

9.2. Seminars: 1

9.3. Laboratory/Practice classes: 1

10. Faculty:

Faculty of Humanities & Social Sciences

11. Department/study program:

TEACHER EDUCATION

12. Lecturer:

Prof.dr.sc. Sead Rešić

13. Lecturer's e-mail:

Sresic@hotmail.com, sead.resic@untz.ba

14. Web site:

www.pmf.untz.ba

15. Course aims:

To learn mathematical concepts and methods necessary for further professional work of students, to train students in methodical and visual thinking, and to create preconditions for methodical creative problem solving.

16. Learning outcomes:

At the end of the semester / course, successful students, who have continuously performed their duties throughout the teaching period, will be able to know methodological and mathematical concepts in working with students.

17. Course content:

Methodology of studying the concepts of natural numbers.
Methods of studying the numbers of the first and second tens.
Methodology of studying the numbers of the first hundred.
Methodology of studying the numbers of the first million.
Methods of studying numbers larger than millions.
Methods of studying equations and inequalities in the initial teaching of mathematics.
Letter - number. Mathematical expression. Equations and their solution. Inequalities and their solution.
Methodology of studying geometric contents. Spatial forms. Line. Along, (pa) point, (pa) straight and semi-straight ...
Circle, circle, angle. Rectangle and square as bounded flat surfaces. Triangle. Draw triangles, rectangles and squares.
Rectangular (square) grid.
Points and (straight) figures in a square grid. Methods of studying measurements (size) in the initial teaching of mathematics.
Measurement of length, area and volume. Measurement of mass, time.
Methods of studying fractions in the initial teaching of mathematics.
Methodical study of the content of additional classes.
Geometry and arithmetic

18. Learning methods:

In order to efficiently teach and achieve the expected goals of the course Methodology of initial teaching of mathematics II, the course uses different methods:
Lectures: (P)
Exercises: (AV)
Seminar paper: (SR)

19. Assessment methods:

The student is obliged to come regularly for lectures (P) and auditory exercises (AV) throughout the semester. The teacher will monitor the student's presence on a specially created form throughout the semester. The student earns 5 points for attending lectures, and the student also earns 5 points for attending exercises.
Student absences from lectures and exercises will not be tolerated. In case the student cannot attend lectures and exercises due to illness, in agreement with the subject assistant he can compensate them in certain terms or he will get a task related to the part of the program and exercises that he did not attend, ie consultation with the subject teacher. Also, for continuous activity in class throughout the semester, it is possible to get five (5) points in discussions with the teacher.
If the student fulfills the above conditions without being absent from lectures and exercises, and is active in classes during the semester, he receives 5 + 5 + 5 points based on attendance and activity (a total of 15 points).
Students should actively participate in the discussion with the teacher on the mentioned forms of teaching. Also, the teacher will assign students throughout the semester with the help of assistants certain tasks that students need to perform in order to be ready for further follow-up.
After each taught unit, the assistants will give partial parts of the exam. There will be 2 (two) during the course. Each partial part of the exam carries 35 points. So a total of 70 partial 70 points.

20. Assessment components:

Attendance at lectures 3
Attendance at exercises 3
Student activity 4
Seminar paper 10
Partial tests 35
Total pre - examination obligations 55
Final exam 25-30
The grade on the exam is based on the total number of points that the student has gained by fulfilling pre-exam obligations and taking the exam, and according to the quality of acquired knowledge and skills, and contains a maximum of 100 points.

21. Required reading list:

1. Sead Rešić: Mathematics I-Methodology of primary education, Papir karton, Tuzla, 2013.
2. Markovac J.: Methodology of initial teaching of mathematics, Školska knjiga, Zagreb, 1990.
3. Margita Pavleković: Methodology of teaching mathematics with informatics I, Element

22. Web sources:

4. All collections of tasks for primary school from the first to the fifth grade of nine-year primary school

23. Applicable starting from the academic year:

2022/23

24. Adopted in the Faculty/Academy session: