SYLLABUS

1. Course title:

Fundamentals of Mathematics 2

2. Code:

FoM

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

none

7. Class restrictions:

none

8. Duration / semester:

1 2

9. Weekly contact hours:

9.1. Lectures:	3
9.2. Seminars:	2
9.3. Laboratory/Practice classes:	0

10. Faculty:

Faculty of Humanities & Social Sciences

11. Department/study program:

TEACHER EDUCATION

12. Lecturer:

Sabina Hrustić

13. Lecturer's e-mail:

sabina.hrustic@unitz.ba

14. Web site:

www.untz.ba

15. Course aims:

The main aim of this module is for students to acquire basic knowledge in the field of geometry, one of the most applicable mathematical disciplines.

16. Learning outcomes:

After completing and successfully passing the course, students will be able to independently solve a large number of different types of geometric tasks, to translate some simpler problems from everyday life into the language of geometry, and solve them with acquired knowledge and adopted methods.

17. Course content:

Axiomatic basis of geometry. Angle. Polygon. Match of geometric figures. Correspondence of angles. Measuring angles. Triangle. Circle. Quadrangle. Constructive tasks. Surface measurement. Vectors. Isometric mappings of the plane. Geometric figures in space. Surface and volume of some geometric figures.

18. Learning methods:

Lectures and techniques of active learning with active participation and discussions of students;
Auditory exercises in which students, with the help of an assistant, also solve tasks independently.

19. Assessment methods:

Students are required to attend all hours of lectures and exercises. The condition for obtaining a signature is a minimum of 80% attendance at all forms of teaching. Students can be stimulated by certain activities in teachingnumber of points (max 5). Students have the right (and should use it) to inspect their written work with an adequate explanation by the teacher or assistant. Students are recommended to clarify any ambiguities that arise during learning with the teacher and assistant in terms of consultations.

Criteria-scoring-evaluation:

Course tests (two tests)	T1: 25
	T2: 25
Final exam	50

20. Assessment components:

Gradeing

Number of points	Mark (BiH)	(ECTS mark)
< 54	5	F
54 – 63	6	E
64 – 73	7	D
74 – 83	8	C
84 – 93	9	B
94 – 100	10	A

21. Required reading list:

1. S. Hrustić, Osnove geomerije, skripta
2. K. Subašić, Matematika sa zbirkom zadataka za studente razredne nastave, Zenica 2000.
3. M. Prvanović, Osnovi geometrije, Građevinska knjiga, Beograd 1980.
4. R. Točić, V. Petrović, Problemi iz geometrije (metodička zbirka zadataka), Univerzitet u Novom Sadu, Novi Sad 1995.

22. Web sources:

23. Applicable starting from the academic year:

2022/23

24. Adopted in the Faculty/Academy session: