

УНИВЕРЗИТЕТ У БАЊОЈ ЛУЦИ UNIVERSITY OF BANJA LUKA

ПРИРОДНО-МАТЕМАТИЧКИ ФАКУЛТЕТ



FACULTY OF NATURAL SCIENCES AND MATHEMATICS

CHEMISTRY DEPARTMENT FIRST CYCLE OF STUDY Chemistry/Chemistry Education

Course name	Mathematics 1				
Course code	Course status	Semeste	r Hours of ins	truction	ECTS
1C16HOS332	required		2+2		6
Teacher(s)	Prof. Duško Bogdanić PhD				
Prerequisite course(s) Entry requrements					
/ /					
Course goals					
The goal of the course is to help students gain the basic knowledge of elementary mathematics (more specifically,					
linear algebra and analytic geometry) which they need in order to understand the subject matter of other courses					
they will take during their studies.					
Learning outcomes					
Students will gain the basic knowledge of mathematics which will make it possible for them to understand the					
subject matter of other courses they will take during their studies.					
Course content					
Sets.					
Natural, whole and rational numbers.					
Real and complex numbers.					
Systems of linear equations					
Matrices and determinants.					
Vectors and coordinate systems.					
Linear dependence of vectors.					
Scalar and vector product.					
The equation of a line in the plane.					
The equation of a plane in the space.					
Second degree curves.					
Second degree surfaces.					
Applications in chemistry.					
Teaching methods					
Lectures, practical classes, and revision.					
Books and other learning materials					
1.M. Janjic: Matematika 1, University of Banja Luka, 2000.					
2. D. Adnadjevic, A.Vucic: Matematika 1 za studente hemije, University of Belgrade.					
Course activities and grading method					
Colloquia, written exam, and oral exam.					
Activity	10	Tests			30
		Final ex	am		60
Additional course notes					
1					
Name of the teacher who prepared this form Duško Bogdanić					

