
	UNIVERSITY OF EAST SARAJEVO Faculty of Philosophy					
	Study programs: Mathematics and informatics, Mathematics and Physics					
	Bachelor	I - year of studies				
Full course title	Analytic geometry					
Chair	Department of Mathematics - Faculty of Philosophy					
Course code	Status		Semester	ECTS		
MP2-2	O		II	6		
Lecturer/s	Assist. Prof. Valentina Timotic, PhD					
Teaching assistant/s	Jelena Radovic					
Number of classes / teaching workload (weekly)			Individual workload (number of hours per semester)		Individual workload coefficient S_o^1	
L	AE	LE	L	AE	LE	S_o
3	2	0	63	42	0	1,4
total teaching workload (number of hours per semester) 75h			total individual workload (number of hours per semester) 105h			
Total course workload (teaching + individual): 180 hours per semester						
Learning outcomes	<ol style="list-style-type: none"> 1. Acquisition of general and specific knowledge from analytical geometry of plane and space 2. Basic knowledge of geometry of sphere. 3. Students are able to apply the coordinate method in other courses. 					
Requirements	No.					
Teaching methodology	lecture, exercise and application					
Course content (by week)	<ol style="list-style-type: none"> 1. Vectors and operation with vectors. 2. Descartes coordinate system. 3. Equivalence and orientation of the system. 4. Plane. 5. Line and plane in space. 6. The distance of the point from the line and the plane. 7. The angle between two lines, two planes and between line and plane. 8. Analytic presentation of the curves. 9. Second order curves. 10. Analytic presentation of the surface. 11. Second order surface. 12. Square form. 13. Identification of second order curves and surfaces . 14. Cylindrical and spherical coordinates. 15. Polar and baricentric coordinates. 					
Compulsory reading list						
Author	Title, publisher			Year	Pages (from-to)	
G. Thomas, R. Finney	Calculus and Analytic Geometry 9 th edition, Addison-Wesley			1996		
N. Blazic, N. Bokan, Z. Lucic, Z. Rakic	Analiticka geometrija, Matematički fakultet Beograd			2003		
Complementary reading list						

Author/s	Title, publisher	Year	Pages (from-to)	
Obligations, forms of assessment and grading	Types of student work evaluation		Points	Percentage
	Pre-exam obligations			
	e.g. attendance of lectures/exercises		5	5
	e.g. positively graded project/essay		5	5
	e.g. test/colloquia 1		20	20
	e.g. test/colloquia 2		20	20
	Final exam			
	e.g. final exam (oral/written)		50	50
TOTAL		100	100 %	
Web page	ffuis.edu.ba			
Date of verification				