

	UNIVERSITY OF CRIMINAL INVESTIGATION AND POLICE STUDIES		
	11080 ZEMUN, 196, CARA DUŠANA ST.		
	Accreditation of the study program BACHELOR'S DEGREE STUDIES (UNDERGRADUATE ACADEMIC STUDIES) Forensic Engineering		

Standard 05. - Curriculum

Table 5.2 Course description

Teaching course:		Mathematics 1			
Course code: 121					
Number of ECTS: 8					
Teacher:		Joksimović D. Dušan			
Course status:		Mandatory			
Number of active teaching hours (per week)					
Lectures:	Exercises:	Other forms of teaching:	Research study paper:	Other classes:	
3	2	0	0	0	
Course prerequisites None					
Conditions:					
1. Learning objective: Introducing students with basic concepts and facts of mathematical algebra and analysis necessary for studies in informatics and computer science					
2. Learning outcomes (Acquired knowledge): Students are training to successfully follow and understand courses in the higher years of study, with special reference to optimization of thinking and reasoning, as well as aspects of practical applications.					
3. Course content/structure: Theoretical teaching: Sets, relations and mappings, Basic properties of real functions, Mathematical induction and combinatorics, Algebraic structures, Complex numbers, Metric spaces and topological concepts, Linear spaces, Matrices and determinants, Systems of linear equations, Vector algebra, Series and convergence of series, Limit value of functions , Continuity of functions, Differential calculus and examination of functions, Polynomials and rational functions, Indefinite integral, Definite integral and its applications. Practical training: Corresponding assignments from the mentioned areas of theoretical teaching.					
4. Teaching methods: Lectures, exercises, application of mathematical software Matlab and Mathematica.					
Knowledge (grading maximum number of points is 100)					
Pre-exam requirements		Mandatory	Points	Final exam	Mandatory Points
Preliminary exam		Yes	30,00	Written exam	Yes 70,00
Textbook(s)					
No.	Author(s)	Title		Publisher	Year
1.	Миловановић, Г. ; Јоксимовић, Д. ; Ђорђевић, Р.	Математика		Београд : Криминалистичко-полицијска академија	2015
2.	Merkle, M.	Matematička analiza : teorija i hiljadu zadataka : za studente tehnike, (3. izmenjeno i dopunjeno izd.)		Beograd : Akademsko misao	2015
3.	Васић, П. ; Иричанин, Б. ; Јовановић, М. ; Малешевић, Б. ; Маџаревић, Т. ; Михаиловић, Б. ; Радосављевић, З. ; Симић, С. ; Цветковић, Д.	Збирка задатака из алгебре. Део 1., (6. изд.)		Београд : Академска мисао	2006
4.	Васић, П. ; Иричанин, Б. ; Јовановић, М. ; Маџаревић, Т. ; Михаиловић, Б. ; Радосављевић, З. ; Симић, С. ; Цветковић, Д.	Збирка задатака из алгебре. Део 2., (5. изд.)		Београд : Академска мисао	2006