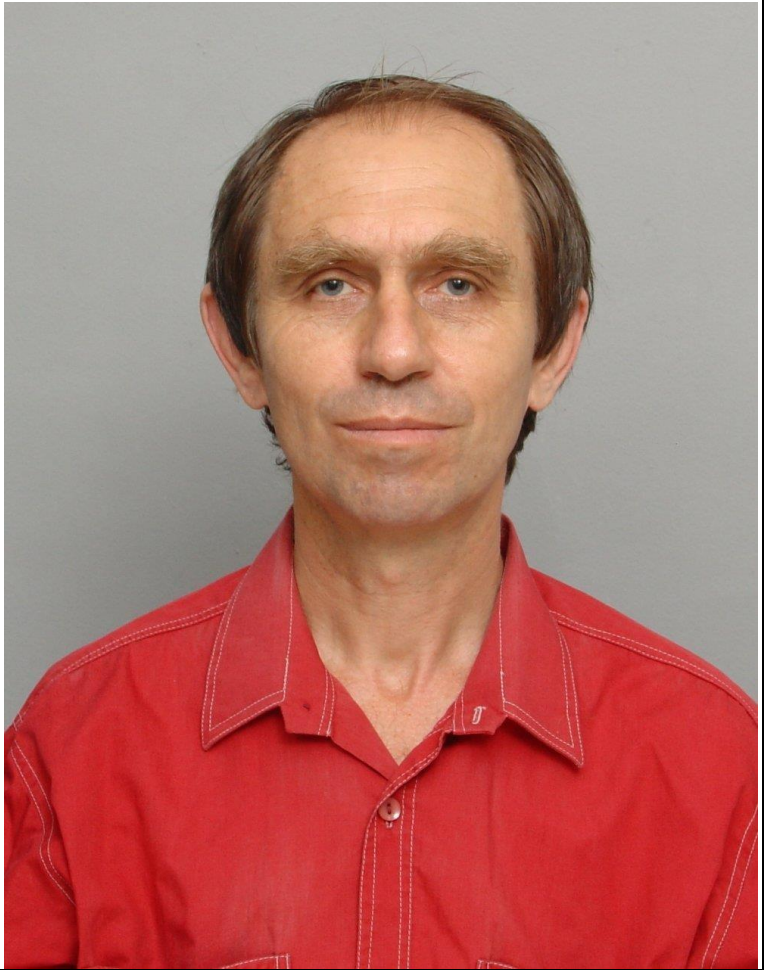


Discipline	MATHEMATICS Part 1	code: 1	winter semester
Specialty	Software and Internet Technologies Computer Systems and Technologies		
ECTS credits: 7	Form of assessment: exam		
Lecturer	Assoc. Prof. Dr. Vsevolod Ivanov Ivanov Room: 808 E Phone: +359 878 148 179 E-mail: vsevolodivanov@yahoo.com		
Department	Mathematics and Physics		
Faculty	Faculty of Electrical Engineering		

Learning objectives:

- acquisition of knowledge in the basic sections of mathematics (complex numbers and polynomials, linear algebra and vector calculus, differential and integral calculus of functions of one variable);
- acquisition of potential skills to apply the methods of mathematical analysis in solving applied problems;
- development of logical and algorithmic thinking.

ANNOTATION

The aim of the course "Mathematics Part 1" is to introduce students to the main concepts of linear algebra, analytical geometry and calculus. Students will master the methods and techniques of solving mathematical problems while developing their logical and algorithmic thinking. The course develops the ability of enrich mathematical knowledge and conduct mathematical analysis of applied problems.

CONTENTS:

Training Area	Hours lectures	Hours exercises
Complex numbers and Polynomials	4	6
Linear Algebra	6	8
Vector Calculus	6	8
Differential Calculus of functions of one independent variable	10	15
Integral Calculus	4	8
TOTAL: 75 h	30	45