


Discipline	BASIC MATHEMATICS code: 1 winter semester		
Specialty	Software and Internet Technologies Computer Systems and Technologies		
ECTS credits: 7	Form of assessment: exam		
Lecturer	Assoc. Prof. PhD Tsanko Raykov Genchev Room: 810 E Phone: +359 878 148 085 E-mail: genchev57@yahoo.com		
Department	Mathematics and Physics		
Faculty	Faculty of Electrical Engineering		
<p>Learning objectives:</p> <p>The following basic areas of mathematics are included in the course: complex numbers and polynomials, linear algebra and vector calculus, differential and integral calculus of functions of one variable.</p> <p style="text-align: center;">ANNOTATION</p> <p>The proposed topics in the programme are considered in theoretical and practical point of view in order to provide the necessary basic knowledge used in the other engineering disciplines and specifically in the two specialties.</p> <p>The laboratory classes equipped at the beginning with a good starting point of corresponding theoretical matter make the process of learning extensive and more attractive.</p>			

CONTENTS:

Training Area	Hours lectures	Hours laboratory exercises
Complex numbers and Polynomials	4	4
Linear Algebra	6	6
Vector Calculus	6	6
Differential Calculus of functions of one independent variable	10	10
Integral Calculus	4	4
TOTAL: 60 h	30	30