


Discipline	(HIGHER) MATHEMATICS Part 1 code: 1 winter semester	
Specialty	Naval Architecture and Marine Technology Marine Engineering Navigation	
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 presented course contains important sections of the following basic areas of mathematics: linear algebra, analytical geometry and differential calculus of functions of one or more independent variables.</p> <p style="text-align: center;">ANNOTATION</p> <p>An elementary knowledge of high school mathematics is necessary to proceed with the course. The aim is to define the basic notions and operations in order to use them in Mathematics-part 2 as well as in various engineering disciplines.</p> <p>The included laboratory classes are based onto systems of computer algebra and give students the possibility to become familiar with mathematical methods in an easy way so that to continue their education by self-preparation.</p>		

CONTENTS:		
Training Area	Hours lectures	Hours laboratory exercises
Linear Algebra	6	9
Analytical Geometry	9	9
Differential Calculus of functions of one independent variable	10	9
Differential Calculus of functions of two independent variables	5	3
TOTAL: 60 h	30	30