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Discipline	MATHEMATICS Part 2 code: 7 **summer semester**	
Specialty	Naval Architecture and Marine Technology Navigation	
ECTS credits: 4	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 (integral calculus of function of one and more variables, ordinary differential equations, infinite series, complex numbers and functions of a complex variable, probability theory);
- acquisition of potential skills to apply the methods of mathematical analysis in solving applied problems;
- development of logical and algorithmic thinking.

ANNOTATION

The discipline "Mathematics Part 2" is designed for students specialising in "Naval Architecture and Marine Technology" and "Navigation". The discipline contains theoretical information and examples of solving practical problems. The following basic areas of mathematics are included in the course: integral calculus of function of one and more variables, ordinary differential equations, infinite series, complex numbers and functions of a complex variable, probability theory.

CONTENTS:

Training Area	Hours lectures	Hours seminar exercises
Single Variable Integral Calculus	7	9
Multivariable Integral Calculus	5	8
Ordinary Differential Equations	4	7
Number Series, Power Series and Fourier Series	6	7
Complex Numbers and Functions of a Complex Variable	3	6
Probability Theory	5	8
TOTAL: **75** h	**30**	**45**