

Code:9 „Mathematics-part 2”

ECTScredits: 5	Number of hours per week:
Forms of assessments: Exam	2+0+2
	Types of assessment: Exam - written
Department, providing instruction on the discipline: Department: <i>MATHEMATICS</i> <i>DEPARTMENT OF MATHEMATICS, PHYSICS AND LANGUAGE</i> <i>EDUCATION</i>	

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Annotation: The syllabus of Mathematics part 2 uses the knowledge which is obtained from the course of Mathematics part 1. It contains the following sections: integral calculus, ordinary differential equations, infinite series, function of a complex variable, theory of probability. The aim is to define the considered notions and their application in the next topics of the course and in the engineering disciplines. Systems of computer algebra are used in the laboratory classes. These modern forms of education give students the opportunity to learn mathematics easily and consider it from another point of view.

Main issues of the syllabus content :

- Integral calculus
- Differential equations
- Series
- Complex numbers and function of a complex variable
- Theory of probability

Content presentation:lectures, laboratory classes and tutorials