

Code: 1,,Higher Mathematics- part 1”

ECTScredits: 7	Number of hours per week: 1+3+0
Forms of assessments:Exam	Types of assessment: Exam - written
Department, providinginstruction on the discipline: Section: <i>MATHEMATICS</i> <i>DEPARTMENT OF MATHEMATICS, PHYSICS AND LANGUAGE EDUCATION</i>	

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Annotation:

The present course introduce the students to the basic notionsand methods how to solve problems concerning the following areas of mathematics: matrices, determinants, matrix equations, systems of linear equations, operations with vectors, equations of straight lines and planes, second order plane curves and surfaces, differential calculus of functions of one independent variable, spherical geometry and trigonometry.

It has been built on the basic knowledge of high school mathematics and supplies other disciplines (like mathematics part 2, physics, theoretical electrical engineering, technical mechanics etc.) with necessary information to be used to.

Main issues of the syllabus content:

- Linear algebra
- Analytical geometry
- Differential calculus of functions of one variable
- Spherical trigonometry

Content presentation:lectures, seminars and tutorials