

**Faculty of Architecture****Department:** Architecture and Urbanism**Professional area:** Architecture, Civil Engineering and Geodesy**Major:** Architecture**Educational – qualification Degree:** Master**COURSE DESCRIPTION**

1. **Course unit title:** Mathematics
2. **Course unit code:** MAT 2002
3. **Type of course unit:** compulsory
4. **Level of course unit:** Master
5. **Year of study:** first
6. **Semester when the course unit is delivered:** first
7. **Number of ECTS credits allocated:** 6
8. **Name of lecturer:** Assoc. Prof. Zdravko Slavov, PhD
9. **Learning outcomes of the course unit:** Students acquire knowledge and skills in the field of linear algebra, analytic geometry, differential and integral calculus, as well as solving some types of differential equations.
10. **Mode of delivery:** face-to-face
11. **Prerequisites and co-requisites:** The study of the subject requires good knowledge of the high school course in mathematics, compulsory for all high schools in Bulgaria.
12. **Course contents:** The main mathematical categories and sections such as linear algebra, analytical geometry, differential calculus, integral calculus and some elements from the differential equations are identified. Attention is paid to the aspects of application of the topics taught.
13. **Recommended or required reading:**
  - Линейна алгебра-Първа част,
  - Аналитична геометрия
  - Математически анализ-първа част на доц. Р. Николаев
  - Висша математика на доц. И. Янчев.
14. **Planned learning activities and teaching methods:** lectures, seminars, at the lectures an emphasize is put on clarifying new concepts and statements and the major types of problems which are consolidated at the seminars. After each seminar students are given independent work.
15. **Assessment methods and criteria:** written examination
16. **Language of instruction:** Bulgarian
17. **Work placement(s):** none