



Exam 1: Mathematics

Syllabus for the Admission Examination to “Politehnica” University of Timisoara

Field:

Subject: Mathematics

Faculty of Architecture

- **Bachelor’s Programmes : Architecture**
 - Bachelor Level I, years of study: 6 – Romanian - medium programmes

Syllabus

Elements of linear algebra

Matrices. Determinants. Systems of linear equations

Elements of Mathematical Analysis

Limits of sequences . Limits of functions . Continuous functions . Differentiable functions . Applications of derivatives for the study of the variation of functions .

Bibliography:

- [1] Alternative handbooks approved by the Romanian Ministry of Education for IXth, Xth, XIth, XIIth grade;
- [2] *** Mathematical tests (with choose option response) for the high school graduated and the university admission examinations. Ed. Politehnica, Timisoara, 2004;
- [3] *** Mathematics Tests (for Admission Examination)

*Note:*The selected exam subjects will contain problems as those contained in bibliography sources.