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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Electronic Engineering  |
| **GENERAL INFORMATION** |
| Study program  | Electrical Engineering and Computing |
| Study Module (if applicable) | Common |
| Course title | Mathematics 2 |
| Level of study | xBachelor ☐ Master’s ☐ Doctoral |
| Type of course | x Obligatory ☐ Elective |
| Semester  |  ☐ Autumn xSpring |
| Year of study  | First year |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Kovačević A. Milan, Marinković D. Slađana, Rančić Z. Lidija |
| Teaching mode |  xLectures ☐Group tutorials ☐ Individual tutorials ☐Laboratory work ☐ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| **Mastering the basic knowledge of calculus. Students gain competence to apply the obtained knowledge and to develop skills of analytical thinking.** |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Relations and mappings. Metric spaces. Sequences and convergence. Basic properties of real functions of a real variable. Limits ​​of functions of a real variable. Continuity of functions of a real variable. Differentiation of functions of a real variable. Analysing functions of one real variable and sketching graphs. The integration of functions of one real variable. Methods and application of definite integration.** |
| **LANGUAGE OF INSTRUCTION** |
| xSerbian (complete course) x English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **8** | **Written examination** | **20** |
| **Practical teaching** | **12** | **Oral examination** | **20** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |