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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Science and Mathematics |
| **GENERAL INFORMATION** |
| Study program  | **Mathematics** |
| Study Module (if applicable) |  |
| Course title | Elementary Mathematics 2 |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | I |
| Number of ECTS allocated | 7 |
| Name of lecturer/lecturers | Jelena V. Manojlović |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *The idea of the course is continuation and specialization of students knowledge in the field of elementary mathematics**relevant in school practice.*  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Elementary functions – basic properties. Quadratic functions. Power functions. Exponentiation – positive integer exponents, negative exponents, rational exponents, real exponents. Exponential function. Logarithms. Trigonometric and inverse trigonometric functions. Hyperbolic and inverse hyperbolic functions. Elementary functions as solutions of functional equations. Nonlinear algebraic system of equations – cyclic systems. |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [ ]  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** |  | **Written examination** | **48 (depending on teaching colloquia)** |
| **Practical teaching** |  | **Oral examination** | **52** |
| **Teaching colloquia** | **48**  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |