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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | Faculty of Economics |
| **GENERAL INFORMATION** |
| Study program  | **Finance, Banking and Insurance** |
| Study Module (if applicable) |  |
| Course title | Mathematics |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | First |
| Number of ECTS allocated | 7 |
| Name of lecturer/lecturers | Nebojša StojkovićMiroljub MilojevićŽarko Popović |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *This course primarily aims at developing the abilities of thinking and logical reasoning. The aim of this course is that students become introduced to and master basic mathematical concepts, methods and models necessary for understanding and analyzing relevant micro- and macro-economic problems and situations. It also provides a necessary basis for studying statistical and quantitative methods in economics.**After considering and mastering the contents of this course, students can independently perform a discrete analysis of simpler models (using linear algebra) and a dynamic analysis of models with one variable (with the help of differential and integral calculus) for specific economic and organizational problems* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| *1. Introduction 2. Some algebraic structures, 3. Combinatorics, 4. Elements of probability theory 5. The linear vector space, 6. Limits and continuity of functions of one variable, 7. Derivation of functions of one variable, 8. Integral forms for functions of one variable* |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [ ]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[x] Serbian with English mentoring [ ] Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** | **15** | **Written examination** | **20** |
| **Practical teaching** | **15** | **Oral examination** | **30** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |