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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 | Algebras, rings and modules |
| Level of study |  Bachelor Master’s x Doctoral |
| Type of course | ☐ Obligatory x Elective |
| Semester  |  Autumn xSpring |
| Year of study  | The second year |
| Number of ECTS allocated | 12 |
| Name of lecturer/lecturers | Dijana V. Mosić |
| Teaching mode | xLectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *The students will master advanced theory of algebras, rings and modules, and independently solve problems related to significant examples of these structures.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Rings and ideals.****Decomposition of a ring.****Artinian and Noetherian rings.****Моdules.****Projective and injective modules.** **Јаcobson radical.** **Integral domain.****Goldie rings.** **Lie and Jordan algebras.** |
| **LANGUAGE OF INSTRUCTION** |
| xSerbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)☐Serbian with English mentoring ☐Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ćASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** |  | **Written examination** |  |
| **Practical teaching** | **40** | **Oral examination** | **60** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |