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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** |  |
| **GENERAL INFORMATION** |
| Study program  | **Mathematics** |
| Study Module (if applicable) |  |
| Course title | Finsler spaces |
| Level of study | ☐Bachelor ☐ Master’s ☒ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  | ☒Autumn Spring |
| Year of study  | 2 |
| Number of ECTS allocated | 12 |
| Name of lecturer/lecturers | Milan Zlatanović |
| Teaching mode | ☒Lectures ☐Group tutorials ☐ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| ­ ­ Introduction to the theory of a Finslerian spaces and generalizations. Local coordinates are considered. Aspect was placed on the types of covariant differentiation and curvature tensors. Prospective student should master methods polylinear forms. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Calculus of variations. Minkowskian spaces. Covariant derivartives. The “Euclidean connection” of E. Cartan. The theory of curvature. Theory of subspaces. Miscellaneous topics. |
| **LANGUAGE OF INSTRUCTION** |
| ☒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** | **30** |
| **Practical teaching** |  | **Oral examination** | **30** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |