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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Pedagogical Faculty in Vranje** |
| **GENERAL INFORMATION** |
| Study program  | **Preschool Teaching** |
| Study Module (if applicable) | / |
| Course title | **Selected Topics in Teaching Preschool Mathematics** |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☐ Obligatory ☒ Elective |
| Semester  |  ☐ Autumn ☒Spring |
| Year of study  | 1st |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Prof. dr Nela Malinović-Jovanović, associate professor |
| Teaching mode |  ☒Lectures ☐Group tutorials ☒ Individual tutorials ☐Laboratory work ☒ Project work ☐ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Acquiring knowledge necessary for understanding:theoretical basis required for the forming initial mathematical concepts; planning work and models for the development of operational teaching plans; game as a device, method and aspects of teaching in function of developing initial mathematical concepts; basic research orientations in the teaching pre-school mathematics; basic methodological requirements in the organization, implementation and evaluation of educational research and methodical practices.By the and of the course students are expected to have following knowledge, skills and understanding:have mastered the necessary theoretical basis required for the forming of initial mathematical concepts and are able to apply them in practice; are capable to planning work and designing operational lesson plans; analize preschool curriculum and worksheets for preschool children; connect mathematics and other subjects related contents and designing games in the function of developing the same; discover existing and designe new games for the development of mathematical concepts (are capable to determine the aim, objectives, and types of games, as well as the age of children to whom is the game asigned; analyze existing games with the aspects of the formulation of their aim and objectives, the age of children to whom is the game asigned and types of games); are capable for the organization (adoption of research problems, making the research project) realization (creation of instruments, data collection and processing) and interpretation of research results, guided by the needs of the methodical practice and teaching preschool mathematic. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| 1. Planning of work and designing operational lesson plans
2. Method of theoretical analysis in educational research
3. Theoretical analysis of worksheets and mathematics curriculum for preschool children
4. Game as a teaching device, method and form in function of developing initial mathematic concept
5. Construction of games for developing set concept and some elemantary concepts of set theory
6. Construction of games for developing number concept
7. Construction of games for perception and comprehension of space and space-relations
8. Construction of games for developing geometric shapes and concept of measurement
9. Components of educational research in teaching pre-school mathematics
10. Interpret the results of educational research and report making
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| **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** |
| **Analysis of worksheets and mathematics curriculum** | **15** | **Written examination** | **20** |
| **Construction of operational lesson plans** | **10** | **Oral examination** | **10** |
| **Models for performing pre-school mathematics teaching** | **15** |  |  |
| **Research report** | **30** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |