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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 | **Methodology of scientific and technical research** |
| Level of study | ☐Bachelor ☒ Master’s ☐ Doctoral |
| Type of course | ☒ Obligatory ☐ Elective |
| Semester  | ☒ Autumn ☐Spring |
| Year of study  | 1st |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Stojanović, V. Siniša |
| Teaching mode | ☒Lectures ☒Group tutorials ☒ Individual tutorials☐Laboratory work ☐ Project work ☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| The aim of the course: Students learn to write the final and professional work as well as scientific papers with the prior methodological preparation in terms of collecting relevant literature and gathering the necessary information from educational practice. Outcome: Students are trained on the basis of acquired knowledge,to scientifically and methodologicallyinterpret theoretical and empirical data relevant to the research problem, and to communicate that in the form of written final thesis and other scientific papers. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Theoretical classes: Types of scientific papers and criteria for the selection of research topics, bibliographic preparations for making paper, production of measuring instruments and the assessment of their psychometric characteristics. Methodological data collection procedures, application of statistical methods in data processing and finding scientific sources. Writing excerpts from scientific sources, structuralelements of scientific work. The interpretation of research results, language and style of scientific work, evaluation of scientific work.The preparation of the manuscript for printing, scientific professional meetings. The ethics of scientific research.Practical exercises: The development of bibliography of the research project, measuring instruments and determining metric characteristics of instruments. Methodological preparation of research, implementation research, application of appropriate statistical methods and the appropriate size of the nature of teaching. Writing research reports, Preparation of studies and research work, writing studies with the use of modern educational technology, presentation of studies results, simulation of the final defence of thesis, simulation presentations at scientific and professional gathering and preparation of the manuscript for printing. |
| **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** | **10** | **Written examination** | **20** |
| **Practical teaching** | **40** | **Oral examination** | **30** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |