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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Sport and Physical Education** |
| **GENERAL INFORMATION** |
| Study program  | **Doctoral Academic Studies, Sports Science** |
| Study Module (if applicable) |  |
| Course title | Measuring instruments in sports, physical education and recreation |
| Level of study | [ ] Bachelor [ ]  Master’s [x]  Doctoral |
| Type of course | [ ]  Obligatory [x]  Elective |
| Semester  | [x]  Autumn [ ] Spring |
| Year of study  | First |
| Number of ECTS allocated | 6 |
| Name of lecturer/lecturers | Dejan Madić, Ph.D, full proffessor |
| Teaching mode |  [x] Lectures [ ] Group tutorials [ ]  Individual tutorials [ ] Laboratory work [x]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [x]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Upon successful completion of the course students will be able to be critical to the existing measuring instruments, to implement them properly and in accordance with the ethical standards. They will be able to validate and modernize the existing instruments, as well as to independently construct a new instrument of the type paper-pencil. They will be able to familiarise themselves with the rules of writing and techniques of publishing scientific papers in connection with the measurement instruments.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Types of measuring instruments in sports, physical education and recreation. Theories of measurements and yypes of measurement data, the variables, indicators, items. The measurement characteristics of the instrument. Reliability, the standard error of measurement, validity, objectivity and discrimination. Item analysis. The design of the measuring instrument of the questionnaire type-preparation and plan design, the definition of variables, breakdown of the variables into the indicators, instruction writing, pilot testing, implementation on the sample design, the application of the normative sample, norms production, writing manuals. Ethical issues related to the measurement and treatment of the obtained data. Proper use of data from scientific papers dealing with validation of instruments. Rules for writing papers about constructed or revalidated measuring instruments.** |
| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  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** |
| **Theory** | **10** | **Oral examination** | **40** |
| **Individual research work 1** | **20** |  |  |
| **Individual research work 2** | **20** |  |  |
| **Interactive teaching** | **10** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |