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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Philosophy** |
| **GENERAL INFORMATION** |
| Study program  | **Psychology** |
| Study Module (if applicable) | N/A |
| Course title | Multivariate statistics |
| Level of study | X☐Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | X☐ Obligatory ☐ Elective |
| Semester  |  ☐ Autumn X ☐Spring |
| Year of study  | First |
| Number of ECTS allocated | 5 |
| Name of lecturer/lecturers | Prof. dr Vladimir Hedrih, ass. Ivana Pedović, doc. dr Kristina Ranđelović |
| Teaching mode |  ☐XLectures ☐XGroup tutorials ☐ Individual tutorials ☐ Laboratory work ☐X Project work ☐ X Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| *Introduce students to the most commonly used procedures for analysis of latent space and prediction that are based on linear structural models. Make students develop skills needed to read and interpret results of these statistical procedures and apply these statistical procedures by using a computer with appropriate statistical software.* |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Statistical and latent space, linear combinations, linear structural models. Parametric and nonparametric tests for comparison of more than two samples (types, concepts and application). Analysis of variable interaction (MANOVA, GLM). Problems of inflation of probabilities and weak effect detection in a frame of statistical significance testing, problem of structural equivalence of groups. Calculating distances. Regression and prediction, PCA and factor analysis, Cluster analysis. Canonical correlation analysis and Canonical discriminative analysis. Mediation and moderation tests, Structural Equation Modeling, Path analysis. Multidimensional scaling. |
| **LANGUAGE OF INSTRUCTION** |
| ☐X Serbian (complete course) ☐ English (complete course) ☐ Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)☐X 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** | **50** |
| **Two seminar papers** | **20** | **Oral examination** | **0** |
| **Teaching colloquia** | **20** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |