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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | **Faculty of Philosophy** |
| **GENERAL INFORMATION** |
| Study program  | **Sociology** |
| Study Module (if applicable) |  |
| Course title | Introduction to Data Analysis |
| Level of study | x☐Bachelor ☐ Master’s ☐ Doctoral |
| Type of course | x☐ Obligatory/ x☐ Elective |
| Semester  | ☐ Autumn ☐Spring |
| Year of study  | 2nd year of undergraduate studies |
| Number of ECTS allocated | 5 (five) |
| Name of lecturer/lecturers | Gorana Djoric, Associate professor, PhD Nina Pavlović, Teaching Assistant |
| Teaching mode | x☐Lectures ☐Group tutorials x☐ Individual tutorials☐Laboratory work ☐ Project work x☐ Seminar☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| This is an introductory level course into quantitative data analysis, including basic knowledge of statistical inference and hypothesis testing, enabling students to independently conduct elementary data analysis. Students learn how to analyse data, make tables and graphically present results, using basic procedures of SPSS statistical computer program.  |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Course content encompasses the following topics:*1.* Data input, data organisation, data coding and controlling; 2. Data transformation; 3. Different ways of describing and presenting frequency distribution; 4. Measures of central tendency and dispersion; 5. Statistical inference: population and sampling; central limit theorem; parameter estimation; statistical hypothesis testing (equality of means and proportions); 6. Basic concepts of variable correlation and association; correlation and association coefficients, ANOVA and regression analysis. |
| **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** |  | **Written examination** |  |
| **Practical teaching** | **20** | **Oral examination** | **40** |
| **Teaching colloquia** | **40** | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |