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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  | **Faculty of Sciences and Mathematics** |
| **GENERAL INFORMATION** |
| Study program  | **Mathematics** |
| Study Module (if applicable) | / |
| Course title | Selected Topics of Statistics |
| Level of study | ☐Bachelor ☐ Master’s $$ Doctoral |
| Type of course | ☐ Obligatory $$ Elective |
| Semester  |  $$ Autumn ☐Spring |
| Year of study  | First |
| Number of ECTS allocated | 12 |
| Name of lecturer/lecturers | Biljana Č. Popović |
| Teaching mode |  $$Lectures ☐Group tutorials $$ Individual tutorials ☐Laboratory work ☐ Project work $$ Seminar ☐Distance learning ☐ Blended learning ☐ Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
|  Introduction of the main methods of mathematical statistics inferences. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Statistical approach to data sets. Estimation of parameters. Randomised and nonrandomised tests. Simulation methods. Selected topics in decision theory. Robust statistics (elementary). Regression and correlation. Multivariate analysis (elementary). Introduction to time series analysis. Selected topics of process control. |
| **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** |  | **Written examination** | **50** |
| **Practical teaching** |  | **Oral examination** | **50** |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |