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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Management in Engineering** |
| Study Module (if applicable) | - |
| Course Title | Business statistic |
| Level of Study | ☒Bachelor | ☐ Master’s | ☐ Doctoral |
| Type of Course | ☒ Obligatory | ☐ Elective |
| Semester | ☐ Autumn | ☒ Spring |
| Year of Study | I |
| Number of ECTS Allocated |  |
| Name of Lecturer/Lecturers | Melanija Mitrović |
| Teaching Mode | ☒ Lectures | ☒ Group tutorials | ☒ Individual tutorials |
| ☐ Laboratory work | ☐ Project work | ☐ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *Introduce students to the basics of the business statistics. A typical business statistics course covers statistical study, descriptive statistics (collection, description, analysis, and summary of data), probability, and the binomial and*[*normal distributions*](https://en.wikipedia.org/wiki/Normal_distribution)*, test of hypotheses and confidence intervals,*[*linear regression*](https://en.wikipedia.org/wiki/Linear_regression)*, and correlation. The course is targeting both the theoretical and practical aspects of the topics.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1. *Introduction to Probability;*
2. *Random variables;*
3. *Numerical characteristics of random variables;*
4. *Basic elements of statistics;*
5. *Parameter estimation;*
6. *Testing parameter hypotheses;*
7. *Nonparametric testing;*
8. *Linear regression****.***
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| **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** | **60** |
| **Practical Teaching** |  | **Oral Examination** | **Max. 30 (depending on Teaching Colloquia)** |
| **Teaching Colloquia** | **90** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |