|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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****.*** | | | | | | | | |
| **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** | | | | | | | | |