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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Engineering Management** |
| Study Module (if applicable) | Industrial management |
| Course Title | Engineering methods |
| Level of Study | ☐Bachelor | ☒ Master’s | ☐ Doctoral |
| Type of Course | ☒ Obligatory | ☐ Elective |
| Semester | ☒ Autumn | ☐ Spring |
| Year of Study | I |
| Number of ECTS Allocated | 6 |
| Name of Lecturer/Lecturers | Miroslav R. Radovanović, Predrag Lj. Janković |
| 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 engineering methods. The course is targeting both the theoretical and practical aspects of engineering methods. |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1) Importance of engineering methods, 2) Systems and processes, 3) Engineering modeling, 4) Methods of experimental research. Theory of planning the experiment. Statistical analysis of experimental results, 5) Optimization in engineering, 6) Optimization methods, 7) Multiple criteria decision making, 8) Techniques of engineering quality, 9) Measurement and control. Processing of measurement results and display the results. |
| **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** | **5** | **Written Examination** | **30** |
| **Practical Teaching** | **5** | **Oral Examination** | **20** |
| **Teaching Colloquia** | **40** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |