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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | **Mechanical Engineering** |
| Study Module (if applicable) | - |
| Course Title | Advanced non-conventional machining |
| Level of Study | ☐Bachelor | ☐ Master’s | ☒ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☐ Autumn | ☒ Spring |
| Year of Study | I |
| Number of ECTS Allocated | 10 |
| Name of Lecturer/Lecturers | Miroslav R. Radovanović, Dragoljub B. Lazarević, 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 advanced non-conventional machining. The course is targeting both the theoretical and practical aspects of advanced non-conventional machining. |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| 1)Trends in non-conventional machining, 2) Advanced non-conventional machining, 3) High-energy non-conventional machining, 4) Hybrid non-conventional machining, 5) Comparative characteristics of advanced non-conventional machining processes, 6) Selection of advanced non-conventional machining from the point of application, processing capabilities and cost, 7) Mathematical modeling and optimization of advanced non-conventional machining processes, 8) CAM in advanced non-conventional machining. |
| **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** | **100** |
| **Practical Teaching** |  | **Oral Examination** |  |
| **Teaching Colloquia** |  | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |