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| **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty** | Faculty of Mechanical Engineering |
| **GENERAL INFORMATION** |
| Study Program | Mechanical Constructions, Development and Engineering |
| Study Module (if applicable) | Mechanical design, development and engineering |
| Course Title | Design for manufacturing |
| 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 | Dušan S. Stamenković, Aleksandar V. Miltenović |
| Teaching Mode | ☒ Lectures | ☐Group tutorials | ☒ Individual tutorials |
| ☒ Laboratory work | ☒Project work | ☐ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *Introduction to technologies applied in the manufacturing process.Understanding the basic physical principles at different manufacturing processes. Goal of the subject is to get student to know with design for manufacturability according the available production resources.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| Variety of Technologies. Technologies of shape forming(casting, pressing of metals). Technologies of shape changes. Manufacturing technologies. Plastic deformation processing.Technologies of joining (welding, soldering, gluing). Coating technologies. Technologies of changing material properties.Design for product manufacturability.Design for manufacturability in different phases of manufacturing process.Lightweight. Reasons for lightweight. |
| **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** | **0** |
| **Practical Teaching** | **10** | **Oral Examination** | **20** |
| **Teaching Colloquia** | **60** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |