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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 | Tools and equipment |
| Level of Study | ☒Bachelor | ☐ Master’s | ☐ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☒ Autumn | ☐ Spring |
| Year of Study | III |
| Number of ECTS Allocated | 6 |
| Name of Lecturer/Lecturers | Dragoljub B.Lazarevic |
| Teaching Mode | ☒ Lectures | ☐ Group tutorials | ☐ Individual tutorials |
| ☒ Laboratory work | ☐ Project work | ☒ Seminar |
| ☐ Distance learning | ☐ Blended learning | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** |
| *To gain the theoretical and practical knowledge referring to the functioning principles, selection and designing of tools and equipment used in different technologies of machine processing.**To develop ability to design tools for metal forming and to prepare its technical documentation using software applications.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| Basic definitions and applications: metal forming tools, tools for stamping and punching, deep drawing tools, metal bending tools, extrusion tools, forging tools, tools for polymer processing. Detailed functional and dimensional analysis and calculation of the dimensions of the selected parts produced by the tools considered during this course (using various software applications). Cutting tools with geometrically defined and non-defined cutting geometry. Basic definitions and applications of the equipment, its classifications, designing and working principles. |
| **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** | **0** | **Oral Examination** | **30** |
| **Teaching Colloquia** | **60** | **Overall Sum** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |