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| **UNIVERSITY OF NIŠ** | | | | | | | | |
| **Course Unit Descriptor** | | | **Faculty** | | Faculty of Mechanical Engineering | | | |
| **GENERAL INFORMATION** | | | | | | | | |
| Study Program | **Manufacturing & Information Technologies** | | | | | | | |
| Study Module (if applicable) | - | | | | | | | |
| Course Title | Machines and tools for polymer processing | | | | | | | |
| 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 | Dragoljub B.Lazarevic, Dragan I. Temeljkovski | | | | | | | |
| Teaching Mode | ☒ Lectures | | | ☐ Group tutorials | | | | ☐ Individual tutorials |
| ☒ Laboratory work | | | ☐ Project work | | | | ☒ Seminar |
| ☐ Distance learning | | | ☐ Blended learning | | | | ☐ Other |
| **Purpose and Overview (max. 5 sentences)** | | | | | | | | |
| *To introduce different methods for polymer processing, as well as machines and tools for the polymer processing.*  *To gain the knowledge referring to the designing of polymer processing tools, using software application (CAD/CAM).* | | | | | | | | |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** | | | | | | | | |
| Different methods of polymer processing. Construction of the polymer-elements. Tools for injection and extrusion of the polymer-parts. Computer aided design and manufacturing of polymers (CAD/CAM). Design and production of the rubber parts. Machines for polymer processing. Approaches to the design of polymer processing machines (machines for injection moulding, blow moulding, extrusion, rubber processing). | | | | | | | | |
| **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** | | | **-** | | |
| **Practical Teaching** | | **-** | **Oral Examination** | | | **20** | | |
| **Teaching Colloquia** | | **70** | **Overall Sum** | | | **100** | | |
| **\*Final examination mark is formed in accordance with the Institutional documents** | | | | | | | | |