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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** |