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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 | Selected topics in polymer processing |
| Level of Study | ☐Bachelor | ☐ Master’s | ☒ Doctoral |
| Type of Course | ☐ Obligatory | ☒ Elective |
| Semester | ☒ Autumn | ☐ Spring |
| Year of Study | II |
| Number of ECTS Allocated | 10 |
| 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 gain the knowledge referring to the modern polymer processing and to develop students’ ability to select the appropriate method for polymer processing, as well as to select the machines and tools for the polymer processing.* |
| **Syllabus (brief outline and summary of topics, max. 10 sentences)** |
| Modern materials (self-healing materials). Standard methods of polymer processing. Modern 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. Modern machines for polymer processing. New approaches to the design of polymer processing machines (machines for injection moulding, blow moulding, extrusion, rubber processing). CE mark for the polymer processing machines. |
| **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** |