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**			