

parameters.

UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty				
GENERAL INFORMATION					
Study program		Manufacturing & Information Technologies			
Study Module (if applicable)					
Course title		APPLIED TECHNOLOGY OF PLASTICTY			
Level of study		chelor ⊠ Master's	☐ Doctoral		
Type of course		□ Obligatory ⊠ Elective			
Semester		⊠ Autumn ☐ Spring			
Year of study		First			
Number of ECTS allocated		6			
Name of lecturer / lecturers	Saša R	Saša Ranđelović			
	⊠Lect	ures □Group tutoria	als 🗆 Individual tutorials		
Teaching mode	☐ Lat	☐ Laboratory work ⊠ Project work ☐ Seminar			
		☐ Distance learning ☐ Blended learning ☐ Other			
PURPOSE AND OVERVIEW (max. 5 sentences)					
Education of students for the design technology of plastic deformation at the request of the finished product					
and the parameters (degree of deformation, stress state, deformation forces and work, measuring tools) for					

SYLLABUS (brief outline and summary of topics, max. 10 sentences)

Theory: 1. Technology of plasticity today 2. Cold and hot forging technology. FEM analysis 3. Extrusion technology. FEM and analysis Forward extrusion technology of solid hollow elements. FEM extrusion technology FEM analysis. 6. Combined Backward extrusion technology. FEM Analysis 7. Deep drawing technology. FEM analysis. 8. Deep drawing technology in next operations, FEM analysis Technologies are narrowing and widening draw elements. FEM analysis drawing by fluid. FEM analysis. 11 Bending technology. FEM analysis. 12 Technology of combined balk and sheet metal forming 12. Analysis of the technology placticity on examples of final products of modern industrial

volume deformation and shaping sheet metal. Analysis technology on the FEM simulation model. Qualifying students for the analysis and design process of deformation and generation of simulation models for the identification of the critical

production					
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	60	Oral examination	30		
Teaching colloquia		OVERALL SUM	100		
*Final examination mark is formed in accordance with the Institutional documents					