



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Metal cutting		
Level of Study	<input checked="" type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory	<input checked="" type="checkbox"/> Elective	
Semester	<input type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	III		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Miroslav R. Radovanović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input checked="" type="checkbox"/> Laboratory work	<input checked="" type="checkbox"/> Project work	<input type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Introduce students to the basics of metal cutting. The course is targeting both the theoretical and practical aspects of metal cutting.

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

1) General introduction to metal cutting, 2) Cutting process. Kinematics of cutting. Dynamics of cutting, Vibration, 3) Energy of cutting. Power of cutting, 4) Thermodynamics of cutting. Tribology of cutting, 5) Surface quality. Machinability of materials, 6) Factors and performances of cutting, 7) Regime of cutting, 8) Economics of cutting.

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	5	Written Examination	30
Practical Teaching	5	Oral Examination	30

Teaching Colloquia	30	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			