



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Advanced non-conventional machining		
Level of Study	<input type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input checked="" 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	I		
Number of ECTS Allocated	10		
Name of Lecturer/Lecturers	Miroslav R. Radovanović, Dragoljub B. Lazarević, Predrag Lj. Janković		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input 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 advanced non-conventional machining. The course is targeting both the theoretical and practical aspects of advanced non-conventional machining.

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

1) Trends in non-conventional machining, 2) Advanced non-conventional machining, 3) High-energy non-conventional machining, 4) Hybrid non-conventional machining, 5) Comparative characteristics of advanced non-conventional machining processes, 6) Selection of advanced non-conventional machining from the point of application, processing capabilities and cost, 7) Mathematical modeling and optimization of advanced non-conventional machining processes, 8) CAM in advanced non-conventional machining.

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		Written Examination	100

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