



UNIVERSITY OF NIŠ

Course Unit Descriptor**Faculty**

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Welding Technology		
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 checked="" type="checkbox"/> Autumn	<input type="checkbox"/> Spring	
Year of Study	IV		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Miroslav M. Mijajlović		
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 checked="" 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 welding technology, conventional and non-conventional welding processes, selection of the appropriate welding process and process parameters concerning different welding positions, joint types and base materials. The course is targeting both the theoretical and practical aspects of the welding technology.

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

1) General introduction to welding technology, 2) Oxy-gas welding and related processes, 3) Electrics- review, 4) The arc, 5) Power sources for arc welding, 6) Introduction to gas shielded arc welding, 7) TIG welding, 8) MIG/MAG welding, 9) Submerged-Arc welding, 10) MMA welding, 11) Other (non-conventional) welding processes: Laser, Electron Beam, Ultrasonic, Explosion, Diffusion, Resistance, Friction Welding etc, 12) Cutting, drilling and other edge preparation processes.

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	50
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)
Teaching Colloquia	35	Overall Sum	100

*Final examination mark is formed in accordance with the Institutional documents