



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Lightweight Design		
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 M. Mijajlović, Aleksandar V. Miltenović		
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 checked="" type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Students gain new knowledge about the classical and modern lightweight design

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

1) Introduction to lightweight structures, 2) Lightweight design strategies, 3) Materials for lightweight design, 4) The selection of materials, 5) Forming, 6) Bionics, 7) Strengthening of the structure, 8) Stability, 9) Form aided design, 10) Assembly techniques, 11) Construction, 12) Validation, 13) Recycling.

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	0	Written Examination	50
Practical Teaching	0	Oral Examination	50
Teaching Colloquia	0	Overall Sum	100

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