

UNIVERSITY OF NIŠ

otor	Faculty	Fa	culty of Mec	hanical Enginee	ring		
GENERAL INFORMATION							
Mechanical Engineering							
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Ergonomics and industrial design							
⊠Bachelor		☐ Master's		□ Doctoral			
☐ Obligatory		⊠ Elective					
☐ Autumn		⊠ Spring					
IV							
5							
Dragoslav B. Janošević							
	y work	⊠ Project	work	☐ Individual tur ☑ Seminar ☐ Other	torials		
Purpose and Overview (max. 5 sentences)							
Fundamentals of ergonomics. The elements and forms of industrial and graphic design. The analysis methodology and process of ergonomic design and industrial and graphic design products. Ergonomic design and industrial design of mobile machines and vehicles.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
) The definition of ergonomics, 2) Engineering psychology ergonomics, 3) Basis of anthropometry and biomechanics, 4) Ergonomic design principles and limitations of the workplace and space, 5) Zones of comfort and reach of management, 6) Factors of comfort: air conditioning, lighting, noise and vibration, 7) FOPS (Falling Objects Protective Structure) and ROPS (Roll Over Protective Structure) operator cab, 8) Definition of industrial and graphic design, 9) Elements and form design, o) The process of development of industrial design products, 11) Detailed industrial and graphic design products, 12) Rapid Prototyping and product presentations.							
Language of Instruction							
Serbian (complete course) English (complete course) Other(complete course)							
□ Serbian with English mentoring □ Serbian with other mentoring							
Assessment Methods and Criteria							
Points	Final Exam		Points				
	Mechanica - Ergonomics a □ Bachelor □ Obligatory □ Autumn IV 5 Dragoslav B. □ Lectures □ Laborator □ Distance letences) elements and redustrial and generator cab, a industrial desons. □ Englise □ Serbia	Mechanical Engineeri - Ergonomics and industrial □ Bachelor □ Obligatory □ Autumn IV 5 Dragoslav B. Janošević □ Lectures □ Laboratory work □ Distance learning tences) elements and forms of indudustrial and graphic design ry of topics, max. 10 senter Engineering psychology enitations of the workplace eg, lighting, noise and vibraterator cab, 8) Definition of industrial design products ons. □ English (complete	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering - Ergonomics and industrial design □ Bachelor □ Master's □ Doctoral □ Obligatory □ Elective □ Autumn □ Spring IV 5 Dragoslav B. Janošević □ Lectures □ Group tutorials □ Individual tu □ Laboratory work □ Project work □ Seminar □ Distance learning □ Blended learning □ Other tences) Idements and forms of industrial and graphic design. The analysis dustrial and graphic design products. Ergonomic design and industrial and graphic design and industrial and graphic design, and industrial design products, 11) Detailed industrial and graphic design, 9) Eleindustrial design products, 11) Detailed industrial and graphic design. □ Serbian with other mentoring □ Other □ □ Othe		

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