

Study program: Occupational Safety Engineering				
Type and level of studies: Undergraduate Academic Studies				
Course unit: Security and protection at work with equipment for work				
Teacher in charge: Mile Savković, Goran Bošković				
Language of instruction: English				
ECTS: 5				
Prerequisites: None				
Semester: Summer semester				
Course unit objective: Theoretical and practical knowledge in the field of public safety equipment for work. Training for making elaborate technical documentation with respect to meeting the security requirements of work equipment.				
Learning outcomes of the course unit Knowledge about a new approach to the safety of work equipment and the ability to produce technical documentation by the approach				
Course unit contents <i>Theoretical classes</i> Indicating the equipment to work. A new approach to safety equipment for working in-law of European directives, harmonized standards. Compliance with the requirements of European directives. General principles of construction from the security machinery. Dangers and hazards created by work equipment. Accommodation of equipment operating from the standpoint of some kind of danger. Types of propulsion energy, with the specificity of protection, disturbance, and the return of the missing energy. Equipment for automatic and manual operation. Apparatus for handling equipment for work. Protective devices and locking devices. Signaling devices and control instruments. Basis risk assessment work equipment. Way to reduce and manage the remaining risks can not be solved well known technical solutions. Certain specific types of hazards (dust, physical hazards, hazardous materials, low/high temperature, dangerous radiation, ...). Maintain and transport equipment to work. <i>Practical classes</i> In the exercises, the acquired knowledge is practically applied to the available laboratory equipment, while in the computer exercises, the use of information and communication technologies is carried out to master the knowledge of the observed area.				
Literature Zeljko M, Borojev LJ, Vilotić D., Machine Safety, Faculty of Technical Sciences, Novi Sad, 2012. Borojev LJ, Zeljković M., Main characteristics and structure of processing systems, Faculty of Technical Sciences, Novi Sad, 2012. Vilotić, D., Plančak, M., Machines for processing by deformation - Crank presses, Faculty of Technical Sciences, Novi Sad, 2010. Kršljak B., Machines and tools for woodworking I, II, III, Uljarice Publik, Belgrade, 2002. Gasić M., Savković M., Marković G. and others, Methodology of inspection and testing of equipment for work (script) Script, Faculty of Mechanical Engineering, Kraljevo, 2008.				
Number of active teaching hours				Other classes
Lectures: 3	Practice: 2	Other forms of classes: 0	Independent work: 0	0
Teaching methods Theoretical part of the material with appropriate practices, to facilitate the understanding and adoption of records. Laboratory exercises practically apply their knowledge of the available laboratory equipment and the computer exercises conducted on using information and communication technologies to gain knowledge from the research field.				
Examination methods (maximum 100 points)				
Exam prerequisites	No. of points:	Final exam	No. of points:	
Student's activity during lectures	5	Written examination	30	
Student's activity during laboratory exercises	5	The oral part of the exam	20	
Projects	20+20			

Grading system		
Grade	No. of points	Description
10	95-100	Excellent
9	85-94	Exceptionally good
8	75-84	Very good
7	65-74	Good
6	55-64	Passing
5	Less than 55	Failing