

Study program: Industrial Engineering			
Course title: Health and Occupational Safety			
Professor/assistant: : Anica Milošević			
Type of course: elective			
ECTS credits: 3			
Pre-requisites:			
Aims of the course: Acquainting students with legal provisions on safety and health at work, hazards, potential harm in certain processes at workplaces and introducing them to occupational safety measures, i.e. safety and health at work as well as workplace risk assessment. Training of staff for a multidisciplinary approach to working and environmental protection issues, so that they can specifically address problems in this area with the use of up-to-date knowledge. Development of knowledge and awareness of different hazards and potential harm to people in the process of work and taking measures for safe operation.			
Learning outcomes: Students are practically trained to recognize hazards and risks while performing jobs in all workplaces and taught how to use protective measures that can affect their reduction. Students acquire general abilities, analyze, synthesize and forecast solutions for the purpose of protection of work and environment consistent with working and environmental protection methods and procedures. Occupational safety and health protection. Integration of basic knowledge into various fields and their application in the working and environmental protection. Knowledge of international and national regulations related to safety and health at work. Risks from mechanical and other hazards and risk management in certain workplaces.			
Syllabus			
<u>Theoretical part</u> Concept of occupational safety and its legal regulations. Knowledge of international and national regulations related to safety and protection at work. Basic sources and causes of hazards and injuries at work: a) subjective factors, b) objective factors. Hazards and measures of protection against electrical current. Hazards and measures of protection against fire and explosion. Hazards and measures of protection against mechanical injuries. Hazards and measures of protection in the operation of power plants. Chemical Damage. Personal and collective protective equipment and equipment safety when moving through drives.			
<u>Practical part</u> Auditory and demonstrative, performed in specific business systems and showing practical cases related to good and bad examples of occupational safety organization. Basic characteristics of the OHSAS 2007 standard			
Literature			
<ol style="list-style-type: none"> 1. B. Anđelković, Introduction to Protection, Faculty of Occupational Safety, Niš, 2005. 2. Group of authors, Occupational Safety, Information Service HIP, Pančevo, 1980. 3. NIP educational informer: Legal provisions related to safety and health at work ,. electronic form, Belgrade, 2006. 4. Law on Safety and Health at Work ("Official Gazette of the Republic of Serbia", No. 101/2005. Drobnjak R., group of authors.: Safety and health at work Book 1 for students of the High-tech technical schools of vocational studies in Uzice, VPTŠ, Užice, 2011. 			
Number of active classes			Other forms of teaching:
Lectures: 2	Practical classes: 0	Research work:	
Teaching methods Combined, interactive approach with practical problem solving.			
Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.			
Pre-exam obligations	points	Final exam	points
activity during theoretical lectures	10	written exam	40
practical training		oral exam	
colloquium(s)/seminar papers	40+10		
Sum	60	Sum	40