

Study program: Industrial Engineering			
Course title: Theory of Risk			
Professor/assistant: Sladjana Nedeljkovic			
Type of course: compulsory			
ECTS credits: 5			
Pre-requisites:			
Aims of the course: adopt the concepts of risk, and risk assessment;teach an introduction to the theory of risk management, and risk management approach actualized in developed countries;learn the techniques and methods for analyzing weight of the consequences and probability of the event (ETA , FTA).			
Learning outcomes: After taking the course, students will be able to: describe the proper approach to the introduction to the theory of risk management (basic concepts, their relationships and interactions);define a systematic understanding of risk, the qualification of risk (probability method, the method of expert assessment, risk matrix);analyze risk classification of the subject of action (individual risk, social risk, technical risk, environmental risk).			
Syllabus <i>Theoretical part</i> Engineering safety in technical systems. The main sources of risks and hazards in the workplace. The concept of risk management. Stages in risk management process. Quality management system. Advantages and disadvantages of risk management. The areas of application of the concept of risk management. New Approach Directives. Setting and labeling in terms of security. Standardization of risk. <i>Practical part</i> Practical analysis of the risk assessment exercise.			
Literature 1. Kanazir J . , Risk assessment and management of hazardous substances. 2. Čvorović Z . B . , Management of environmental risks.			
Number of active classes			Other forms of teaching:
Lectures: 2	Practical classes: 2	Research work:	
Teaching methods Combined, interactive classes with solving practical problems			
Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade7 from 61-70 points, grade8 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	10	oral exam	
colloquium(s)/seminar papers	40		
Sum	60	Sum	40