

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Process industry safety				
Head of course	Zlatko Perić, Senior Lecturer				
Study programme	Professional undergraduate study Occupational Safety				
Status of a course	Obligatory				
Year of study	3.	Semester	V	ECTS credits	5
Teaching plan (L + E + S+ Pr)	2+2+0+0				
Goals of a course					
Introduce students to basic measures in the process industry. Identify the possibilities of applying preventative measures in the security in the process industry and familiarize students with the methods that can be used to solve problems in the process industry.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 4: Evaluate protective measures with respect to danger encountered in the work process. Outcome 5: Recommend measures to eliminate or reduce danger, damage and effort. Outcome 16: Identify safety factors in the industry Outcome 17: Apply legislation in the industry and process industry.					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Identify hazards and noxiousness's in the work space 2. Propose occupational safety measures in the process industry 3. Distinguish occupational safety measures based on the hazards and noxiousness's present in the work space 4. Analyse the production process from the aspect of safety at work 5. Identify the need for personal protective equipment 					
Content of a course					
Safety principles in process industry. Safety organization. Standards in construction, work and process flow. Fixed fire-extinguishing and cooling system. Safety systems. Warehousing systems. In-house supervision. Hazardous substances used in processing. Potential causes of fire. Process halt. Continuous and discontinuous processes. Process devices (pipelines, tanks, containers, reactors etc. and fittings). Control and supervision system. System of fire alarm and gas detection. Omission and emission control system. Personal protective equipment. Qualitative and quantitative risk method. Risk and frequency assessment. Temporary and common work sites.					
Teaching modes	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
Comments					
Students' obligations					
Grading, evaluation and monitoring of students' work continuously during lectures and exams					
Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students. Continuous check-up:					

Outcomes	Pre-exam I	Pre-exam 2	Seminar work	Threshold	Max
Outcome 1	20 %			10 %	20%
Outcome 2	10 %			5 %	10%
Outcome 3		10 %	30%	20 %	40%
Outcome 4		20 %		10 %	20%
Outcome 5			10%	5%	10%
Percentage of ECTS	1,5	1,5	2%		
Total	30 %	30 %	40%	50 %	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Exam term:

Outcomes	Written exam	Oral exam	Max
Outcome 1	15 %	5 %	20%
Outcome 2	8 %	2 %	10%
Outcome 3	20 %	20 %	40%
Outcome 4	10 %	10 %	20%
Outcome 5	5 %	5 %	10%
Percentage of ECTS	2	3	
Total	53%	47%	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Grading:

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome. If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good (4)	B
60,00 – 74,99	Good (3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

Obligatory literature

1. Važeća zakonska regulativa u području zaštite na radu u RH
2. ISO Standardi i priznate metode

Additional literature

