Study program: Occupational Safety Engineering

Type and level of studies: Undergraduate Academic Studies

Course unit: Introduction and Principles of Safety at Work

Teacher in charge: Dr Goran Bošković

Language of instruction: English

ECTS: 8

Prerequisites: None

Semester: Winter semester

Course unit objective:

Acquiring knowledge, competencies, and academic skills in the field of occupational safety. Development of creative abilities and mastering specific practical skills in the field of occupational safety.

Learning outcomes of the course unit

Ability to solve specific problems from the domain of application of the occupational safety and health system. Mastering the methods, procedures, and processes of applying acquired knowledge in the field of occupational safety. Development of skills and proficiency for the realization of occupational safety. Ability to think critically and self-critical thinking and approach in solving problems of implementing occupational safety systems.

Course unit contents

Systems and system elements. Organizational system and the enterprise. Basic elements of the systems and working processes in the enterprise. Technical-technological processes in the enterprise and process characteristics. Basic concepts in the field of occupational health and safety; Importance of the safe working place and working environment; Occupational health and safety principles; Basic elements of occupational health and safety; Protection aspects of occupational health and safety – health, ethical and financial; System of occupational health and safety in the Republic of Serbia; Establishment of the occupational health and safety systems as an European integration process; Process of stabilization and association to the EU; International legal sources in the field of occupational health and safety; European Union Directives; Conventions of the International Labour Organization; Legal regulations of the Republic of Serbia in the field of occupational health and safety; International standards in the field of occupational health and safety; Examples of good practice.

Literature

Stranks J., Health and Safety Handbook: A Practical Guide to Health and Safety Law, Management Policies and Procedures, Kogan Page Limited, 2006.

OHSAS 18001:2007 – Occupational Health and Safety Assessment System, British Standards Institute.

Channing J., Safety at Work, Routledge (Taylor & Francis Group), 2024.

Satapathy S., Realyvásquez Vargas A., Mishra M., Occupational Health Safety Factors and Their Impact on the Mental Health of Workers, Springer, Berlin, 2023.

Number of active teaching hours				**Other classes**
Lectures:	Practice:	Other forms of classes:	Independent work:	
3	3	0	0	**0**

Teaching methods

Teaching is done with modern didactic means and methods, interactive in the form of lectures and auditory exercises. In addition to lectures and exercises, consultations are also held regularly. The lectures show the theoretical part of the material, accompanied by characteristic examples for easier understanding of the subject matter. At the practice exercises, the acquired knowledge from the lectures is practically applied.

Examination methods (maximum 100 points)

Exam prerequisites	**No. of points:**	**Final exam**	**No. of points:**
Student's activity during lectures	5	Written part of the exam - combined tasks and theory	70
Student's activity during laboratory exercises	5		
Test 1	10		
Test 2	10		

Grading system		
Grade	**No. of points**	**Description**
10	**91-100**	Excellent
9	**81-90**	Exceptionally good
8	**71-80**	Very good
7	**61-70**	Good
6	**51-60**	Passing
5	**Less than 51**	Failing