

DESCRIPTION OF THE STUDY SUBJECT

Title

HUMAN SAFETY AND ERGONOMICS

Scope of the subject

Semester	Mode of studies	Structure*					Total number of hours	Number of credits	Group and type of subjects
		L	PS	Lw	C	S			
VI	Full-time	23	6	4	6	39	78	3	Compulsory subjects of the study field
VII	Part-time	12	4	2	21	39			

*L – lectures, PS – practical activities, seminars, LW – laboratory work, PR – practice, CP – course paper, C – consultations, S – self-study

Aim of the subject

To know legal acts on occupational safety and health, procedures of preparing and giving instructions, to perform prevention of accidents at work and occupational diseases, to assess the working environment, working conditions and occupational risks, to organize safe work installing information systems technologies.

Necessary background knowledge for studying the subject

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Content of the subject

Title of the topic and description of the content	Number of contact hours				S	Total number of hours
	T	L	Lw	C		
1. Legal regulation of occupational safety and health. Legal acts on occupational safety and health. Employers' and employees' rights and duties. Occupational safety and health control. Professional risk and its evaluation. Employees' instructing, training and certification.	6	-	-	-	-	6
Test. Questions are related to legal documents on occupational safety and health.	2	-	-	1	8	11
2. Accidents at work, occupational diseases. Study on accidents and occupational diseases. Prevention of accidents at work and occupational diseases.	2	-	-	-	-	2
Practical work No. 1. Study on accidents at work.	-	4	-	1	6	11
3. Working environment and evaluation of working conditions. Parameters of working environment. Risk factors and effect on humans. Hygiene standards. Electrical safety. Fire safety. Collective and personal protective devices.	6	-	-	-	-	6
Laboratory works. Study on the parameters of thermal environment. Identification of acoustic noise. Identification of lighting of workstations.	-	-	4	1	6	11
4. Principles of ergonomics. Ergonomic concept of work systems. Ergonomics of work with computer.	7	-	-	-	-	7
Practical work No. 2. Ergonomic assessment of the computerised workstation.	-	2	-	1	5	8
Preparation and taking the exam					2	14
Total number of hours	23	6	4	6	39	78

Assessment of learning outcomes

Ten-point criteria-based assessment system as well as cumulative assessment using individual cumulative index (ICI) are applied. The overall grade is the sum of grades for intermediate accountings and examination (E) multiplied by weighted coefficients.
 ICI = 0,2 T + 0,2 Pw + 0,1 Lw + 0,5 E, where T – test, Pw – practical works, Lw – laboratory works

Recommended literature

Key literature						
No.	Year of publishing	Author(s) and title of the publication	Publishing house	Number of copies and/or internet link		
				ŠSC library	Other premises	Other libraries *
1.	2009	Ramonas Z., Čikotienė D. Ergonomika. Žmonių saugos pagrindai: Mokomoji knyga	Liucijus	2	-	8
2.	2006	Angart L. Tausok sveikatą dirbdamas kompiuteriu: kaip išvengti nugaros ir sąnarių skausmų ir pagerinti regėjimą	Presvika	1	-	-
3.	2003	Kaminskas K.A. Ergonomika inžinerijoje	VGTU leidykla	3	-	4
4.	2003	Čyras P., Girnius V. ir kt. Profesinė sauga ir sveikata. Ergonomikos principai	Technika	10	-	10
Additional literature						
No.	Year of publishing	Author(s) and title of the publication	Publishing house and/or internet link			
1.	2009	Zaikauskienė R. Ergonomikos pagrindai. Paskaitų konspektas	Panevėžio kolegija			
2.	2008	Lapin K. Žmogaus ir kompiuterio sąveika	TEV			
3.	2005	Šibilskis P., Matulionis V. Saugaus ir sveiko darbo organizavimas	Panevėžys			
4.	2005	Daškevičius R. ir kt. Žmogaus sauga ir sveikata. Laboratoriniai darbai	Technologija			

* ŠAVB – Šiauliai Region Povilas Višinskis Public Library, ŠU – library of Šiauliai University

Required material resources and their short description

- **Equipment (devices):** a computer with Internet access, multimedia projector, devices for measuring parameters of the working environment.

The description prepared by:

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