

MODULE DESCRIPTION

Module code	Z-ZIP1-1028z
Module name	Bezpieczeństwo i higiena pracy
Module name in English	Occupational Health and Safety
Valid from academic year	2016/2017

A. MODULE PLACEMENT IN THE SYLLABUS

Field of study	Management and Production Engineering
Level of education	1st degree <i>(1st degree / 2nd degree)</i>
Studies profile	General <i>(general / practical)</i>
Form and method of conducting classes	Full-time <i>(full-time / part-time)</i>
Specialisation	All
Unit conducting the module	The Department of Economics and Finances
Module co-ordinator	Daria Moskwa-Beczowska, MSc
Approved by:	

B. MODULE OVERVIEW

Type of subject/group of subjects	Other <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	Compulsory <i>(compulsory / non-compulsory)</i>
Language of conducting classes	English
Module placement in the syllabus - semester	1st semester
Subject realisation in the academic year	Winter semester <i>(winter semester/ summer)</i>
Initial requirements	No requirements <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	1

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester	15				

C. TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Module target	The aim of the module is to acquaint students with: interdisciplinary knowledge concerning a man in work environment; the existing legal state of occupational safety; the principles of behaviour in the case of danger; and drawing attention to the duties and rights of an employee and employer.
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Effect symbol	Teaching results	Teaching methods (l/c/lab/p/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student has knowledge of basic issues concerning occupational safety and health as well as ergonomics.	l	K_W13	T1A_W09 T1A_W11
W_02	A student has knowledge describing mutual relations between a man and work performed by him/her in a particular environment from the point of view striving to minimise the effects of physical and mental burden as well as dangers at a workstation.	l	K_W13	T1A_W09 T1A_W11
W_03	A student knows basic methods of limiting onerous and hazardous factors appearing at a workstation.	l	K_W13	T1A_W09 T1A_W11
U_01	A student can use research tools describing the level of work onerousness the level of job hazard.	l	K_U01	TA1_U01
U_02	A student acquires the ability of behaving in hazardous situations, including appropriate reactions in the event of an accident.	l	K_U02 K_U16	TA1_U02 TA1_U11
U_03	A student can correctly construct a workstation in terms of legal and organisational requirements.	l	K_U01 K_U03 K_U06	TA1_U01 TA1_U03 TA1_U05
K_01	A student understands the necessity of continuous improvement of his/her knowledge as regards legal regulations concerning OHS as well as ergonomics in order to raise his/her professional qualifications.	l	K_K01 K_K02	T1A_K01 T1A_K02
K_02	A student identifies and solves business practice problems having their reflection in creating appropriate workstations.	l	K_K04	T1A_K03 T1A_K04
K_03	A student can co-operate and work in a group, communicate effectively, and act ethically in order to provide reliable documentation required by OHS regulations.	l	K_K04	T1A_K03 T1A_K04

Teaching contents:

1. Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1	Work protection system in Poland (definition, the subject and range of safety and work hygiene research; the characteristics of legal conditioning concerning safety and work hygiene; the bodies and organizations of public administration participating in shaping and realizing tasks concerning occupational safety and health).	W_01 U_03 K_01
2	Hazardous, harmful, and arduous factors at a workstation (the characteristics of particular groups of factors, examples, and the methods of limiting them)	W_03 U_01 K_03
3	An analysis of specific physical factors: noise (the notion and essence of noise; infrasound noise; ultrasound noise; permissible noise levels at a workstation; measurement methods; the	W_03 U_01 U_03

	methods of limiting the influence of noise on a man's organism)	K_02 K_03
4	An analysis of specific physical factors: microclimate (the notion and essence of microclimate; heat balance; energy expenditure; an analysis of work environment; an assessment of thermal comfort)	W_03 U_01 U_03 K_02 K_03
5	Ergonomics in shaping working conditions (the notion and essence of ergonomics; a historical outline of ergonomics; the essence of the man-machine system; construction of a workstation in terms of ergonomic requirements based on the example of a computer stand)	W_02 U_03 K_01 K_03
6	The principles of procedure in the event of accidents and hazardous situations (the definition of an accident; the classification of accidents; the methods of examining accidents; the circumstances of accidents; post-accident procedure; providing first aid in the case of an accident)	U_02 K_01 K_03
7	A final test.	

2. Teaching contents as regards classes

Class number	Teaching contents	Reference to teaching results for a module

3. Teaching contents as regards laboratory classes

Laboratory class number	Teaching contents	Reference to teaching results for a module

4. The characteristics of project assignments

The methods of assessing teaching results

Effect symbol	Methods of assessing teaching results (assessment method, including skills – reference to a particular project, laboratory assignments, etc.)
W_01	A final test.
W_02	A final test.
W_03	A final test.
U_01	A final test.
U_02	A final test, first-aid mannikin training.
U_03	A final test.
K_01	A discussion during the lectures.
K_02	A discussion during the lectures.
K_03	A discussion during the lectures.

D. STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	Student's workload
1	Participation in lectures	15
2	Participation in classes	
3	Participation in laboratories	
4	Participation in tutorials (2-3 times per semester)	5
5	Participation in project classes	
6	Project tutorials	
7	Participation in an examination	
8		
9	Number of hours requiring a lecturer's assistance	20 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS point=25-30 hours)</i>	0.7
11	Unassisted study of lecture subjects	3
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	5
14	Unassisted preparation for laboratories	
15	Preparing reports	
15	Preparing for a final laboratory test	
17	Preparing a project or documentation	
18	Preparing for an examination	
19		
20	Number of hours of a student's unassisted work	8 <i>(sum)</i>
21	Number of ECTS credit points which a student receives for unassisted work <i>(1 ECTS point=25-30 hours)</i>	0.3
22	Total number of hours of a student's work	28
23	ECTS points per module <i>1 ECTS point=25-30 hours</i>	1
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	5
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS point=25-30 hours)</i>	0.2

E. LITERATURE

Literature list	<ol style="list-style-type: none"> 1. Rączkowski B., <i>BHP w praktyce</i>, Wydanie XIII, ODDK, Gdańsk 2010. 2. Koradecka D., <i>Bezpieczeństwo pracy i ergonomia</i>, CIOP, Warszawa 1999. 3. Wieczorek S., <i>Podstawy ergonomii</i>, OW PRz, Rzeszów 1998. 4. Kowal E., <i>Ekonomiczno-społeczne aspekty ergonomii</i>, PWN, Warszawa-Poznań 2002. 5. Tytyk E., <i>Projektowanie ergonomiczne</i>, PWN, Warszawa-Poznań 2001.
Module website	