

Faculty of Chemical Technology and Engineering

F: -1-1 - 6 -	L		N	11				1				
Field of st				ical Engineering		C	-1-	-				
Mode of study Graduate's qualification			tatio		Level	first cyc	cie	WTilCh				
			nżyni 					W 1	1 11	CII		
Area(s) o				techniczne							1	
Education	nal profi	le g	jener	al academic							_	
Module												
Course ui	nit			nomics and HS	SW .						\rightarrow	
Code			ChEn_	_1A_S_A04								
Field of s	pecialisa										74	
Administe	ering fac			ite of Inorganic onmental Engine		nology and			_			
ECTS		1	1,0		ECTS (forms) 1,0						•	
Form of c	ourse ci	redit c	redit	S	Language	english						
Electives					Elective group)						
Form of i	Form of instruction		ode	Semester	Hours		ECTS	We	eight		Credit	t
lecture			W	1	15		1,0	1	,00	credits		s
Leading t	eacher	M	/licha	lkiewicz Beata (Beata.Michalki	ewicz@zut.e	edu.pl)					
Other tea		M	⁄licha	lkiewicz Beata (Beata.Michalki	ewicz@zut.e	edu.pl)					
Prerequis	ites											
W-1		requisites										
Module/c	ourse ur	nit objectives	<u> </u>									
C-1				the problems of	occupational hea	lth and safety	and ergonon	nics				
C-2	Getting	Getting ability to apply OHS regulations in laboratory and industry										
C-3	Awarer	ness of importa	ance i	non-technical aspe	ects and conseav	ware quences	of chemical e	ngineer	ing activi	ty		
Course co	ontent d	ivided into va	ariou	s forms of instru	ıction					Num	ber of	hours
T-W-1	Legal r Poland	egulations in t	ulations in the field of occupational health and safety in the law of the European Union and							3		
T-W-2	Ergono	mics								2		
T-W-3	Interaction between Human and Technical Systems									1		
T-W-4	Work with dangerous chemicals or processes									2		
T-W-5	Workplace diagnostics									2		
T-W-6	Certification of products, machines and devices to meet safety requirements									1		
T-W-7 T-W-8	Accidents at work								1			
T-W-9	Occupational disease, occupational risk Safety Management								2			
			ctivit	27						N1~	har of	
A-W-1	_	vorkload - forms of activity								Number of hours		
A-W-2	Lectures Studing the literature								8			
A-W-3	preparation for passing test								7			
Teaching	method	ls / tools										
M-1	lecture	!										
Evaluatio	n metho	ds (F - progr	essiv	re, P - final)								
S-1	Р	test										
Designed learning outcomes				Reference to the learning outcomes designed for the fields of study	Reference to the learning outcomes defined for the particular areas of education	Reference to learning outcomes leading to the degree of "inżynier"	Course objectives	Course co	se content Teaching methods		Evaluation methods	
Knowledg	ne					<u> </u>	<u> </u>	l	l			I .
ChEn_1A_A0 Has knowled conditions o	4_W01 Ige necess f chemical	sary to understar engineering act ustry especially o	ivity a	nd knows HSW	ChEn_1A_W16 ChEn_1A_W19	P6S_WG_TA11 P6S_WK_TA11	P6S_WG_IA11 P6S_WK_IA11	C-1	T-W-3 T	-W-6 -W-7 -W-8	M-1	S-1

Skills											
ChEn_1A_A04_U01 is able to apply OHS regulations in laboratory and industry	ChEn_1A_U05 ChEn_1A_U12 ChEn_1A_U13	P6S_UU P6S_UW_TA12	P6S_UW_IA12	C-2	T-W-5 T-W-6	T-W-9	M-1	S-1			
Other social / personal competences											
ChEn_1A_A04_K01 Is aware of importance non-technical aspects and consequences of chemical engineering activity, including its influence on the environment and people and the related responsibility for the decisions taken.	ChEn_1A_K02	P6S_KO		C-3	T-W-2	T-W-9	M-1	S-1			
Required reading											

1. Benjamin O. Alli, Fundamental Principles of Occupational Health and Safety, International Labour Office, Geneva,, 2008

Supplementary reading

1. Laboratory Safety Guidance, Occupational Safety and Health Administration U.S. Department of Labour, 2011