

Faculty of Chemical Technology and Engineering

		i acare	, or chemi	icai reciiioi	ogy and Engi	neering				
Field of st	udy	Chemi	cal Engineering	g						
Mode of study		station	nary	VA/T:161						
Graduate	s qualification	inżynie	er			WTilCh				
Area(s) of	study	nauki	techniczne							
Educational profile		genera	al academic							
Module	<u> </u>									
Course ur	nit	Techn	ology, Law, a	and the Working	Environment					
Code			1A_S_B07							
Field of specialisation										
Administering faculty			te of Inorganic nmental Engin							
ECTS		2,0								
Form of course credit		credits	5							
Electives				Elective group						
Form of instruction		Code	Semester	Hours	ECTS	Weight Credit				
lecture		W	2	30	2,0	1,00 credits				
				2,77						
Leading teacher Other teachers		Karakı	Tryba Beata (Beata.Tryba@zut.edu.pl) Karakulski Krzysztof (Krzysztof.Karakulski@zut.edu.pl), Tryba Beata (Beata.Tryba@zut.edu.pl), Wymiana międzynarodowa							
Prerequis	ites	TOCATO	1.11 y bu @ 2u t.eu	ia.pi,, wyimana n	nçazynarodowa					
W-1	Basic knowledge			sting law in the Euro		er the world related to the				
Module/co	ourse unit object			<u> </u>						
C-1	The aim of this course is focused on the general orientation about existed regulations in a working environment related to the technology, safety and man; the student will be aware responsibility for the work and some legal consequences in the case of incompatibility of the work in the industrial systems									
C-2		It will be aware of the possible occurence of the risk at the working environment, especially in the industry								
C-3				sments during worki nd the guidance for		angerous substances and will be				
Course co	ntent divided in				<u> </u>	Number of hou				
T-W-1	REACH regulation									
T-W-2	Certification of p									
T-W-3	WHO Guidelines	terials								
T-W-4	Risk assesment									
T-W-5	FDA regulation									
T-W-6	The toxic substances control act									
T-W-7	The Occupation									
T-W-8	Employment law									
T-W-9	Health and safet									
T-W-10	European Union									
T-W-11	Risk and mecha									
T-W-12	Reliability in the			nvironment						
	orkload - forms		/			Number of hou				
A-W-1	Participation in I	3								
A-W-2	Individual literature studies									
A-W-3	Preparation for 6	exam				1				
_	methods / tools									
M-1	Lecture									
M-2	Discussion									
Evaluation	n methods (F - p	rogressiv	e, P - final)							
S-1	P Written	exam (in th	e form of 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 content		Teaching methods	Evaluation methods					
Knowledge													
ChEn_1A_B07_W01 has knowledge about law and regulations at the working environment and other regulations such as REACH, directives of EU, OSH and FDA acts	ChEn_1A_W16	P6S_WG_TA11	P6S_WG_IA11	C-1	T-W-1 T-W-2 T-W-3 T-W-5	T-W-7 T-W-8 T-W-9 T-W-10	M-1	S-1					
Skills													
ChEn_1A_B07_U01 knows and understand regulations and OHS rules applicable in industry and can apply it; can predict and asses the danger in the working place	ChEn_1A_U05 ChEn_1A_U11 ChEn_1A_U12 ChEn_1A_U13	P6S_UU P6S_UW_TA12	P6S_UW_IA12	C-3	T-W-1 T-W-4 T-W-9	T-W-10 T-W-11 T-W-12	M-1	S-1					
Other social / personal competences													
ChEn_1A_B07_K01 Is aware of responsibility for the taken decisions during work and their effect on the surrounded environment	ChEn_1A_K02	P6S_KO		C-2	T-W-3 T-W-6 T-W-9	T-W-11 T-W-12	M-1	S-1					

Required reading

- 1. Nicholas A. Ashford, Charles C. Caldart, Technology, Law, and the Working Environment, Island Press, Island, 1996
- 2. Steven Vaughan, EU Chemicals Regulation, New Governance, Hybridity and REACH, Faculty of Laws, University College London, UK, 2015
- 3. J. C. Miller, R. Serrato, J. M. Represas-Cardenas, G. Kundahl, The Handbook of Nanotechnology. Business, Policy, and Intellectual Property Law, John Wiley & Sons, Inc., 2005

Supplementary reading

1. Richard M. Cyert and David C. Mowery, Technology and Employment, National Academy Press, Washington, D.C., 1987