## Zachodniopomorski Uniwersytet Technologiczny w Szczecinie

## Faculty of Chemical Technology and Engineering

Field of st Mode of s		-									
Mode of s	udy	Chem	ical Engineering	]							
Mode of study		statio	stationary <i>Level</i> first cycle			3.4	· · ı				
Graduate's qualification		inżyni	inżynier					WTilCh			
Area(s) of	study	nauki	techniczne								
Education	al profile	gener	al academic					_			
Module											
Course un	nit	Mana	gement in En	gineering							
Code		ChEn	1A_S_C24a								
Field of sp	pecialisation										
Administering faculty		Exterr	External Department								
ECTS		1,0		ECTS (forms) 1,0							
Form of course credit		credit	S	Language	english		1			-	
Electives		9		Elective group			1				
Form of ir	struction	Code	Semester	Hours		ECTS		ight		Credit	F
lecture	Form of instruction		7	15		1,0		-		redits	
	aachar	W Żobro				1,0	⊥, 				
Leading te		Zebro	wski Paweł (Pav	wei.zebrowski@	୬∠ut.eau.pI)						
Other tead											
Prerequisi	1										
W-1	Basics of Manage	ement									
W-2 W-3	Engineering										
_	5 5	•									
Module/co C-1	ourse unit object		a related to the m	anagement in a	naincorina						
C-1 C-2	Consolidation of knowledge related to the management in engineering.										
C-3		student's ability to recognize the basic concepts of management in engineering. tudent's awareness of the need for continuous education and professional development.									
C-4	Project manager	nent of en	gineering project	s in practice. Get	t to know and		•		ement.	Workf	low.
-			to aviod them. Pr		nd executing						
	ntent divided in		s forms of instru eams. Teams mai		flow Milectory	a Dicks and	any ta a	viad	Numb	er of	hours
T 14/ 1			l executing. Proje					viou			15
T-W-1	them. Project pla										15
	orkload - forms		У						Numb	er of	
		of activit	у						Numb	er of	
Student w	orkload - forms	of activit	у						Numb	er of	hours
Student w A-W-1 A-W-2 A-W-3	vorkload - forms Classroom partic Preparation to th Independent stu	of activit ipation. le lecture. dy of the s	subject matter of	the classes.					Numb	per of	<i>hours</i> 10 10 5
Student w A-W-1 A-W-2	Classroom partic	of activit ipation. le lecture. dy of the s	subject matter of	the classes.					Numb	per of	hours 10 10
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching	vorkload - forms Classroom partic Preparation to th Independent stu	of activit ipation. le lecture. dy of the s	subject matter of	the classes.					Numb	per of	<i>hours</i> 10 10 5
Student w A-W-1 A-W-2 A-W-3 A-W-4	vorkload - forms Classroom partic Preparation to th Independent stur Participation in p	of activit ipation. le lecture. dy of the s	subject matter of	the classes.					Numb	per of	<i>hours</i> 10 10 5
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching M-1 Evaluatior	Vorkload - forms Classroom partic Preparation to th Independent stur Participation in p methods / tools Lecture	of activit ipation. le lecture. dy of the s project class rogressiv	subject matter of sses.	the classes.					Numb	per of	<i>hours</i> 10 10 5
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching M-1	vorkload - forms Classroom partic Preparation to th Independent stur Participation in p methods / tools Lecture	of activit ipation. le lecture. dy of the s project class rogressiv	subject matter of sses.	the classes.					Numb	per of	<i>hours</i> 10 10 5
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching M-1 Evaluatior	Vorkload - forms Classroom partic Preparation to th Independent stur Participation in p methods / tools Lecture	of activit, ipation. le lecture. dy of the s project class rogressiv est	subject matter of sses. re, P - final)	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	Course co	ntet 1	Peer of	<i>hours</i> 10 10 5
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching M-1 Evaluatior	vorkload - forms   Classroom partic   Preparation to th   Independent stur   Participation in p   methods / tools   Lecture   n methods (F - p)   F   Written to   Designed learn	of activit, ipation. le lecture. dy of the s project class rogressiv est	subject matter of sses. re, P - final)	Reference to the learning outcomes designed for the fields of	learning outcomes defined for the particular areas of	learning outcomes leading to the		Course co	ntet 1	Feaching	hours 10 10 5 5
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching M-1 Evaluation S-1 Knowledge ChEn_1A_C22 Student has t	vorkload - forms Classroom partic Preparation to th Independent stur Participation in p methods / tools Lecture n methods (F - p F Written to Designed learn	of activity ipation. le lecture. dy of the s roject class rogressiv est	subject matter of sses. e, <i>P - final</i> ) omes	Reference to the learning outcomes designed for the fields of	learning outcomes defined for the particular areas of	learning outcomes leading to the	objectives	Course co	ntet 1	Feaching	hours 10 10 5 5
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching M-1 Evaluation S-1 Knowledge ChEn_1A_C22 Student has t	vorkload - forms   Classroom partic   Preparation to th   Independent stur   Participation in p   methods / tools   Lecture   n methods (F - p)   F   Written to   Designed learn   e   4a_W01   theory-based knowled	of activity ipation. le lecture. dy of the s roject class rogressiv est	subject matter of sses. e, <i>P - final</i> ) omes	Reference to the learning outcomes designed for the fields of study ChEn_1A_W16	P6S_WG_TA11	learning outcomes leading to the degree of "inżynier"	objectives		ntet 1		hours 10 10 5 5
Student w A-W-1 A-W-2 A-W-3 A-W-4 Teaching w M-1 Evaluation S-1 Knowledge ChEn_1A_C24 Student has t management Skills ChEn_1A_C24 Student can	vorkload - forms   Classroom partic   Preparation to th   Independent stur   Participation in p   methods / tools   Lecture   n methods (F - p)   F   Written tr   Designed learn   e   4a_W01   theory-based knowled   tin engineering.	of activity ipation. le lecture. dy of the s project class rogressiv est ing outco dge within the wledge to s	subject matter of sses. e, P - final) omes the scope of	Reference to the learning outcomes designed for the fields of study ChEn_1A_W16	P6S_WG_TA11	learning outcomes leading to the degree of "inżynier"	objectives		ntet 1		hours 10 10 5 5

ChEn_1A_C24a_K01 Student is aware of the need for continuous education and professional development in the field of management in engineering.	ChEn_1A_K02 ChEn_1A_K06	P65_KO		C-3	T-W-1	M-1	S-1
Required reading							
1. Paul S Chinowsky, James E Meredith, Strategic Corpora	ate Management	for Engineer	ing, Oxford Un	iversity	/ Press, UK, 200	00	
2. Garold D. Oberlender,, Project Management for Engine	ering and Const	ruction, McGr	aw-Hill Interna	tional	Editions, 2011		
3. Karl Smith, P.K. Imbrie, Teamwork and Project Manage	ement (Basic Eng	ineering Seri	es and Tools),	2011			
4. J. Park , T. P. Seager , P. S. C. Rao , M. Convertino , I. L in Engineering Systems, 2011	inkov, , Integrat	ng Risk and F	Resilience Appr	oaches	s to Catastroph	e Manag	gement
Supplementary reading							
1. M.D. Singh, An interpretive structural modeling of know	wledge manage	ment in engin	eering industri	es, MC	B UP Limited, 2	2003	
2. W. Hammer, D. Price, Occupational Safety Manageme	nt and Engineeri	ng (5th Editio	n), 2011				