		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject mistry		Code 1011101331010700133			
Field of	study		Profile of study (general academic, practical)	Year /Semester		
Engi	ineering Manage	ment - Full-time studies -		2/3		
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) elective		
Cycle o	f study:		Form of study (full-time,part-time)			
	First-cyc	cle studies	full-time			
No. of h	iours			No. of credits		
Lectu	re: 30 Classes	s: 15 Laboratory: -	Project/seminars:	- 4		
Status o	-	program (Basic, major, other) (brak)	(university-wide, from another f	^{iield)} (brak)		
	Education areas and fields of science and art study effects leading to the acquisition of engineering qualifications 4 100%					
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		s of knowledge, skills an	d social competencies:			
1	Knowledge	General chemistry on a high sch	nool level			
2	Skills	Basic fluency in English languag	je			
3	Social competencies	Ability to work in a team				
Assu	mptions and obj	ectives of the course:				
Assum	ptions and objectives	of the course: The aim of the cour ce i.e. metal corrosion, synthetic p		m the area of chemical		
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	vledge:			-		
		ism of metal corrosion and methor structure and its properties [K04		lerstanding of polymers structure		
Skills						
1. Rec	ognition of chemical fo	ormulas and language of chemical	reactions - [K01_InzAU2, K01	_InzAU7]		
	al competencies:					
	ty to communicate in I sts - [K01_InzAK01]	English language in the area of me	etal corrosion and polymers. At	bility to communicate with		
		Assessment metho	ds of study outcomes			
Curren	t assessment during	classes.				
			escription			

Corrosion of metals. Electrochemical mechanism of corrosion. Anodic and cathodic reactions. Electrolyte. Protection of metals against corrosion. Coatings. Metallic coatings. Protectors. Cathodic protection. Anodic protection. Corrosion inhibitors. Chemical structure of polymers. Linear and cross-linked polymers. Termoplasticity of polymers. Chemical structures of popular polymers. Language of chemistry as an element of engineer knowledge.

Basic bibliography:

1. I. Czarnecki, T.Broniewski, O.Henning, Chemia w budownictwie, Arkady, Warszawa, 1994; rozdziały: Chemia polimerów i Korozja materiałów metalicznych

Additional bibliography:

Result of average student's workload

Activity		Time (working hours)
1. Lecture		30
2. Classes		15
3. Consultations		10
4. Preparation for classes		25
5. Preparation for assessment of classes		6
6. Preparation for assessment of lectures	10	
7. Final assessment of lectures	2	
8. Final assessment of classes		2
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	100	4
Contact hours	59	2
Practical activities	15	1