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		STUDY MODULE D	ES	CRIPTION FORM			
Name of the module/subject Chemistry				Code 1011101331010720133			
Field of	study			Profile of study		Year /Semester	
Man	agement - Full-ti	me studies - First-cycle		(general academic, practical) (brak)		2/3	
Elective	path/specialty	-		Subject offered in: Polish		Course (compulsory, elective) elective	
Cycle o	Cycle of study:			Form of study (full-time,part-time)			
First-cycle studies				full-time			
No. of h	iours					No. of credits	
Lectur	re: 30 Classes	s: 15 Laboratory: -		Project/seminars:	-	4	
Status	of the course in the study	program (Basic, major, other)		university-wide, from another f	ield)		
		(brak)			(bra	ak)	
Educati	on areas and fields of sci	ence and art				ECTS distribution (number and %)	
study	effects leading	to the acquisition of engi	inee	ering qualifications		4 100%	
Resp	onsible for subje	ect / lecturer:			l		
	f dr hab. inż. Zenon Łւ						
	ail: e-mail: office_chte(
	tel. (0*61) 6652 786, faulty of Chemical Tech						
	Piotrowo 3, 60-965 Po:	0,					
Prere	equisites in term	s of knowledge, skills an	d s	ocial competencies:			
1	Knowledge	General chemistry on a high sch	hool I	evel			
2	Skills	Basic fluency in English language	ge				
3	Social competencies	Ability to work in a team					
Assu	mptions and obj	ectives of the course:					
		of the course: The aim of the course i.e. metal corrosion, synthetic			m th	e area of chemical	
	Study outco	mes and reference to the	ed	ucational results for	a f	ield of study	
Knov	vledge:						
		ism of metal corrosion and metho structure and its properties [K04			erst	anding of polymers structure	
Skills	s:						
		ormulas and language of chemical	l read	ctions - [K01_InzAU2, K01	_Inz	:AU7]	
Socia	al competencies:						
	ty to communicate in l	English language in the area of m	etal o	corrosion and polymers. Ab	ility	to communicate with	

Assessment methods of study outcomes

Current assessment during classes.

Course description

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 workload

Source of workload	hours	ECTS
Total workload	100	4
Contact hours	59	2
Practical activities	15	1