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		STUDY MODULE D	ES	CRIPTION FORM		
	of the module/subject			Code 1011101331010710133		
Field of	•	ment - Full-time studies -		Profile of study (general academic, practical) general academic	Year /Semester	2/3
	e path/specialty	_		Subject offered in: Polish	Course (compulsory, e	
Cycle o	f study:		For	m of study (full-time,part-time)	0.000.70	
First-cycle studies				full-time		
No. of h	nours				No. of credits	
Lectu	re: 30 Classes	s: 15 Laboratory: -		Project/seminars:	- 4	
Status	of the course in the study	program (Basic, major, other)		(university-wide, from another fi	eld)	
		other		unive	rsity-wide	
Educati	on areas and fields of sci	ence and art			ECTS distribution (num and %)	ber
technical sciences				4 100%		
	Piotrowo 3, 60-965 Po: equisites in term	znan, is of knowledge, skills an	d s	ocial competencies:		
1	Knowledge	General chemistry on a high sch	nool	level		
2	Skills	Basic fluency in English language				
3	Social competencies	Ability to work in a team				
Assu	imptions and obj	ectives of the course:				
		of the course: The aim of the course i.e. metal corrosion, synthetic			n the area of chemical	
	Study outco	mes and reference to the	ed	ucational results for	a field of study	
Knov	vledge:					
		ism of metal corrosion and metho structure and its properties [K04			erstanding of polymers st	tructure
Skills						
		ormulas and language of chemical	rea	ctions - [K01_InzAU2, K01_	_InzAU7]	
	al competencies:					
1. Abil	ity to communicate in I	English language in the area of m	etal	corrosion and polymers. Ab	ility to communicate with	

Assessment methods of study outcomes

Current assessment during classes.

chemists - [K01_InzAK01]

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