Name of the module/subject Coc Chemistry 101					de I 1101231010700133		
Field of study				Profile of study (general academic, practical)		Year /Semester	
Engineering Management - Full-time studies - Elective path/specialty				(brak) Subject offered in:		<b>2/3</b> Course (compulsory, elective)	
		-		Polish		elective	
Cycle o	f study:		Fo	rm of study (full-time,part-time)			
First-cycle studies			full-time				
No. of h	iours					No. of credits	
Lectu	re: <b>30</b> Classes	s: 15 Laboratory: -		Project/seminars:	-	4	
Status	of the course in the study	program (Basic, major, other)		(university-wide, from another fi	ield)		
		(brak)			(bra	ak)	
Educati	on areas and fields of sci	ence and art				ECTS distribution (number and %)	
techr	nical sciences					4 100%	
Technical sciences						4 100%	
Resp	onsible for subj	ect / lecturer:					
dr hab. inż Bogdan Wyrwas email: bogdan.wyrwas@put.poznan.pl tel. 616652706 Faculty of Chemical Technology ul. Berdychowo 4, 60-965 Poznań							
Prere	equisites in term	s of knowledge, skills an	d s	ocial competencies:			
1	Knowledge	General chemistry on a high school level					
2	Skills	Basic fluency in English language					
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:							
Recognition of chemical formulas and language of chemical reactions - [K01_InzAU2, K01_InzAU7]							
Social competencies:							
	1. Ability to communicate in English language in the area of metal corrosion and polymers. Ability to communicate with chemists - [K01_InzAK01]						

STUDY MODULE DESCRIPTION FORM

	Assessment methods of study outcomes				
Current assessment during classes.					
	Course description				

## **Faculty of Engineering Management**

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.

Teaching methods:

Lecture - informative lecture Exercises - exercises method

## 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