

Subject card

Subject name and code	CHEMISTRY AND TECHNOLOGY OF POLYMERS, PG_00049358							
Field of study	Chemical Technology							
Date of commencement of								
studies	COLODE I ZUZ I		Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies		Subject group		Optional subject group			
						Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction			Polish		
Semester of study	4		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry							
Name and surname	Subject supervisor							
of lecturer (lecturers)	eachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	30	5.0		40.0		75	
Subject objectives	The aim of the course is to familiarize students with the basic knowledge of macromolecular compounds,methods of their preparation, testing, properties and application.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	K6_U07		The student is able to select a processing method for a group of polymers			[SU5] Assessment of ability to present the results of task		
	K6_W09		The student is able to list which types of polyreation can be used to obtain a polymer and from which monomers			[SW1] Assessment of factual knowledge		
Subject contents	Basic terms: mer, monomer, oligomer, polymer, dispersibility, types of bonds in the main chain, macromolecular compounds and polymers, thermo resins and chemoplasts. Classification of monomers and polyreactions. Radical polyaddition, polyaddition, polycondensation, anionic, cationic and coordination polymerization stages. Copolymerization and types of copolymers: statistical, block, graft, dendrimers, starry copolymer etc. Characteristics and examples of practical applications of thermoplastics, thermo and chemically hardenable compounds, elastomers, rubbers, rubbers, - technologies of their preparation. Parameters and methods characterizing their properties.							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade			
and criteria	lecture		60.0%		60.0%			
	laboratory		60.0%			40.0%		
Recommended reading	Basic literature		1. Łączyński B.: Tworzywa wielkocząsteczkowe, WNT 19832. Florjańczyk Z , Chemia zw. wielkocząsteczkowych,W-wa 19953. Stevens P., M.: Wprowadzenie do chemii polimerów, PWN 1983					
	Supplementary literature		Przygocki, Metody fizyczne badań polimerów, PWN 1994					
	eResources addresse	latformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Give examples of unsaturated monomers and polymers obtained from them. Division of monomers. give all the stages of obtaining polystyrene, polyvinyl chloride and other unsaturated monomers. Examples of obtaining polyethers, polyesters, etc.							
Work placement	Not applicable							

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