

## Subject card

Subject name and code	Quality control in chemical technology , PG_00038552								
Field of study	Chemical Technology								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2023/2024			
Education level	second-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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry								
Name and surname	Subject supervisor		dr inż. Ewa Głowińska						
of lecturer (lecturers)	Teachers		dr inż. Ewa G	łowińska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	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		SUM	
	Number of study 15 hours		5.0		5.0 25		25		
Subject objectives	The aim of the course is to acquire students the ability to plan and perform the basic characteristics of physicochemical and mechanical properties of specific products in the field of polymers, cosmetics and functional materials according to standards and other regulation in quality control of particular product.								
Learning outcomes	Course out	come	Subject outcome			Method of verification			
	K7_K01		1 , ,			[SK2] Assessment of progress of work			
	K7_K04					[SK1] Assessment of group work skills			
	K7_U05		students have the ability to independently carry out specific research using modern techniques in the field of chemical analysis, physical, mechanical and biological characteristics of a specific product according to the quality control requirements.			[SU4] Assessment of ability to use methods and tools			
Subject contents	Product quality control in industry; safety data sheet, technical approval, requirements according to the Pharmacopea, other regulations informing about the quality of the product. Products for self-testing from the group of polymer granulates, including biodegradable ones (e.g. cutlery, cups, medical equipment), polymer packaging (for contact with food, cosmetics, other technical products), polymer products and polymer composites in construction (e.g. insulation boards, pipes, paints) and medicine (dressings, stable and biodegradable implants). Products from the group of pharmaceuticals and selected drugs (anti-bullets, vitamins, ointments). Products from the group of pharmaceuticals and selected drugs (painkillers, vitamins, ointments). Products from the group of cosmetics, detergents and household chemicals (anionic and non-ionic surfactants, creams, shampoos, etc.).								
Prerequisites and co-requisites	No requirements								
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	obligatory practical workshop		60.0%		50.0%				
	Final presentation		60.0%			50.0%			

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Recommended reading	Basic literature	Broniewski T., Kapko J., Płaczek W., Thomala J. T.: Metody badań charakterystyczne dla polimerów, WNT, W-wa 1970. 2. Łączyński B.; Tworzywa wielkocząsteczkowe, WNT W-wa 19823.  Data sheets, technical approvals in construction (via Internet)  Pharmacopea				
		Product information leaflets  Industry guidelines				
	Supplementary literature	Przygocki W.: Metody fizyczne badań polimerów, PWN, W-wa				
	Cappiementary incretare	19904. 2.				
		ASTM, DIN, EU standards				
		https://biotechnologia.pl/kosmetologia/kontrola-jakosci-w-produkcji-kosmetykow,10734				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Sample products analyzed:					
, i	biodegradable filament for FDM 3D printing					
	Paracetamol					
	Anti-dandruff shampoo					
Work placement	Not applicable					

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