

Subject card

Subject name and code	Manufacturing Polymer Elements, PG_00055493								
Field of study	Mechanical Engineer	ing							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
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	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						d Ship		
Name and surname	Subject supervisor	dr inż. Sławomir Szymański							
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory			Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	15.0		0.0	45	
	E-learning hours inclu			·				-	
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	45		7.0		48.0		100	
Subject objectives	Acquiring knowledge nests and production				om poly	meric r	naterialsThe	ability to design	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U04] is able to perform a critical analysis of the existing technical solutions, present the specification of the technology of manufacturing basic construction elements of machines and engineering assemblies		The student is able to design a production line and an automated production cell for the production of polymer products			[SU1] Assessment of task fulfilment			
	[K6_U10] is able to formulate the principles of selecting a material for a construction, ensuring the correct operation of a device		the student is able to analyze the technological performance of a polymer product and select the optimal material and choose the appropriate technological process			[SU1] Assessment of task fulfilment			
	[K6_W03] possesses to practically apply the on the construction, and testing methods construction material	The student knows the methods of manufacturing products from polymeric materials The student knows the machines, tools and raw materials used in the processing of polymers			[SW1] Assessment of factual knowledge				
Subject contents	1. classification of po extrusion, pressing, c (molds and heads)4 /	alendering, the	rmoforming, ca	asting3. Constr	uction c	of tools			
Prerequisites and co-requisites	knowledge of materials science								
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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	test	60.0%	50.0%			
	raport	60.0%	20.0%			
	project	60.0%	30.0%			
Recommended reading	Basic literature	1.Robert Sikora:, Przetwórstwo tworzyw polimerowych, WydawnictwoPolitechniki Lubelskiej, Lublin 20062. 2.W. Korszak: Technologia tworzyw sztucznych, WNT Warszawa,1981				
	Supplementary literature	1. Sachtling. Tworzywa Sztuczne -poradnik, WNT Warszawa, 1995				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Characterize the injection process2. Present the project of a line for the production of PE pipes3. Design a thin-walled molding					
Work placement	Not applicable					

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