

Subject card

Subject name and code	Processing of plastics, PG_00055252								
Field of study	Management and Production Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026			
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	6		ECTS credits			2.0			
Learning profile	general academic profile		Assessme	Assessment form			assessment		
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Sławomir Szymański						
	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0	15.0 0.0		30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		4.0		16.0		50	
Subject objectives	Acquiring knowledge in the field of polymer materials processingAcquiring knowledge about machines and tools used in the processing of plasticsThe ability to select machines and devices necessary for the production process of typical plastic products								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K6_W08] has basic management knowledge, including process and product quality management, and detailed knowledge of integrated and standardized quality, environmental, health and safety management systems	the student knows the methods of processing polymeric materials the student is able to develop the technological process of manufacturing polymer products	[SW1] Assessment of factual knowledge			
	[K6_U07] is able to conduct a preliminary economical analysis of undertaken engineering activities, is able to can conduct a critical analysis and evaluation of existing production processes and courses of selected sections of manufacturing systems, is able to identify the needs of the application of technical solutions for automation and / or robotization production stations and formulate the specifications of the resulting benefits and limitations	the student is able to select a set of machines, tools and devices necessary for the production process for the production process of polymer products	[SU1] Assessment of task fulfilment			
	[K6_K02] is able to interact and work in a group, assuming different roles, can inspire and organize the learning process of others, properly identifies priorities for realization of a task specified by themselves or others	The student realizes a given topic in a team, sets goals, analyzes and designs a production stand	[SK2] Assessment of progress of work			
	[K6_W13] has detailed knowledge of the production and operation of machines and devices, diagnosing their technical conditions and selection of regeneration techniques	the student knows the methods of processing polymeric materials the student is able to develop the technological process of manufacturing polymer products	[SW1] Assessment of factual knowledge			
,	Characteristics of polymeric materials2. Physical and chemical methods manufacture of productcalenderings from polymers3. Characteristics and analysis of technological processes: injecton moulding, extrusion, plastic pressing,thermoforming calendering,, molding plastic,, lamination					
Prerequisites and co-requisites	knowledge of materials science					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	raports	60.0%	20.0%			
	the presentation	60.0%	20.0%			
	test	60.0%	60.0%			
Recommended reading	Basic literature 1.Robert Sikora:, Przetwórstwo tworzyw polimerowych, WydawnictwoPolitechniki Lubelskiej, Lublin 20062. W. W. Kors Technologia tworzyw sztucznych, WNT Warszawa,1981					
	Supplementary literature	ure 1. Sachtling. Tworzywa Sztuczne -poradnik, WNT Warszawa, 1995				
	eResources addresses Adresy na platformie eNauczanie:					
	1. Graphically represent the steps in the injection molding process2. Sketch lines for extrusion of pipes3. List the varieties of plastic casting and describe one of the methods					
Work placement	Not applicable					

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