

Subject card

Subject name and code	Processing of Plastics, PG_00039963								
Field of study	Management and Production Engineering, Management and Production Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study 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			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		dr inż. Sławor						
of lecturer (lecturers)	Teachers		dr inż. Sławoi	nż. Sławomir Szymański					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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				Self-study		SUM		
	Number of study hours 30		5.0		40.0		75		
Subject objectives	Acquiring knowledge in the field of polymer materials processing Acquiring knowledge about machines and tools used in the processing of plastics The ability to select machines and devices necessary for the production process of typical plastic products								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_W06 K6_U05		production technology of polymer			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
						[SU1] Assessment of task fulfilment			
	K6_K02		The student realizes a given topic in a team, sets goals, analyzes and designs a production stand			[SK3] Assessment of ability to organize work [SK1] Assessment of group work skills [SK2] Assessment of progress of work			

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Subject contents	Characteristics of polymeric materials						
	Physical and chemical methods manufacture of productcalenderings from polymers 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	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	reports	60.0%	20.0%				
	test	60.0%	60.0%				
	the presentation	60.0%	20.0%				
Recommended reading	Basic literature	1.Robert Sikora:, Przetwórstwo tworzyw polimerowych, Wydawnictwo Politechniki Lubelskiej, Lublin 2006					
		orzyw sztucznych, WNT Warszawa,					
	Supplementary literature	1. Sachtling. Tworzywa Sztuczne -poradnik, WNT, Warszawa, 1995					
	eResources addresses						
Example issues/ example questions/ tasks being completed	Graphically represent the steps in the injection molding process						
	2. Sketch lines for extrusion of pipes						
	3. List the varieties of plastic casting and describe one of the methods						
Work placement	Not applicable						
p.a							

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