

## Subject card

Subject name and code	, PG_00058883							
Field of study	Mechanical Engineering							
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction			Polish		
Semester of study	3		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							Ship
Name and surname	Subject supervisor		dr inż. Sławor					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory			Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0 15.0		0.0	45
	E-learning hours inclu		P. L. C.	<b>.</b>		0 15 1		0.114
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-st	udy	SUM
	Number of study hours	45		0.0		0.0		45
Subject objectives	Acquiring knowledge in the field of designing injection molds for thermoplastics, experimental and computer methods in the design of injection tools							
Learning outcomes	Course outcome Subject outcome Method of verification							ification
			The student has knowledge of the construction, operation and operation of injection molds			[SW1] Assessment of factual knowledge		
	designing and optimization of complex technological processes, modelling and calculations using numerical methods, knows modern manufacturing methods and tools for designing manufacturing processes of machines, devices, their elements and components  [K7_U01] is able to acquire information from specialist literary sources and other sources regarding the construction and operation of machines and related disciplines in polish and in a foreign language, is able to		The student knows about mold design methods z using methods computer  The student can for the product with from synthetic materials design an injection mold The student is able to design the compact The student is able to choose an injection molding machine			[SW1] Assessment of factual knowledge  [SU1] Assessment of task fulfilment		

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Subject contents	Technological basics of designing injection-molded products. Criteria for material selection for injection molded products. Construction of the injection mold (standard parts, molding components). Dies and stamps (manufacturing methods). Injection process simulation					
Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
		60.0%	60.0%			
	project	60.0%	40.0%			
Recommended reading	Basic literature	D.Frenkler H.Zawistowski; KONSTRUKCJA FORM WTRYSKOWYCH DO TWORZYW TERMOPLASTYCZNYCH, Plastech, Warszawa, 2000      H. Zawistowski; ROZWÓJ KONSTRUKCJI FORM WTRYSKOWYCH, Plastech, Warszawa, 2003				
	Supplementary literature	online catalogs of corps and standardized items				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Replace the basic functional modules of the form2. Characterize the mold cooling systems3. List the types of gating systems for molds					
Work placement	Not applicable					

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