

Subject card

Subject name and code	Manufacturing Techniques 2, PG_00049765								
Field of study	Power Engineering								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
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	2		Language of instruction			English			
Semester of study	3		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 -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr hab. inż. Jacek Tomków						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0	0.0		30	
	E-learning hours inclu			i		i		_	
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		4.0		41.0		75	
Subject objectives	Knowledge of plastic technology, additive processing method, electric discharge manufacturing, and others advance machining processes. Principles of manufacturing process and quality control								
Learning outcomes	Course out	come	Subject outcome Method of verification						
	[K6_W05] has struct knowledge in the fiel engineering and elec necessary to unders basics of operation a of electrical machine transmission system electronic devices								
	learned mathematica the analysis and des	[K6_U02] is able to apply the earned mathematical methods to the analysis and design of elements, systems and energy systems							
Subject contents	LECTURE: Basic of plastic technology, additive method of manufacturing, Surface technology and inspection in 2D and 3D parameters, manufacturing systems, measurement and inspection, Production planing and control, LABORATORY EXERCISE: Additive method in manufacturing, geometric structure of surface - roughness measurement, plastic techniques, influence of the basis on manufacturing accuracy, (EDM) electro discharge manufacturing, planing manufacture of a definite part spectrum, coordinate measurement technics								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	Final test		60.0%		60.0%				
	Reports		0.0%			40.0%			

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Recommended reading	Basic literature	 M. P. Groover: Fundamentals of modern Manufacturing, JOHN WILEY&SONS, INC. S. Kalpakjian, S. R. Schmid: Manufacturing Engineering and Technology, Pearson Prentience Hall. A. Brent Strong: Plastic materials and processing, Pearson Prentience Hall.2000. 					
	Supplementary literature	Myer Kutz: Mechanical Engineers' handbook Manufacturing and Management, John Wiley & sons, INC, 2006					
eResources addresses		Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Parameters characterize the geometric structure of the surface, Measurement length and evaluation length, Characterize machining allowances, Bases in the manufacturing process, The relationship between class of the accuracy of the components and the structure of the surface What is the technological base?, Operation in the manufacturing process, Characterize the machining process, Characterize the incremental method, The method of manufacture of plastics components, Characterise EDM process.						
Work placement	Not applicable						

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