

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

Subject name and code	Selected issues of Manufacturing Engineering, PG_00024939								
Field of study	Medical and Mechan	Medical and Mechanical Engineering, Mechanical and Medical Engineering							
Date of commencement of studies			Academic year of realisation of subject			2022/2023			
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			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 of lecturer (lecturers)	Subject supervisor		dr inż. Michał Landowski						
	Teachers	dr inż. Michał Landowski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ect Seminar		SUM	
	Number of study hours	15.0	0.0	0.0	15.0		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 SU		SUM		
	Number of study 30 hours			8.0		37.0		75	
Subject objectives	The aim of the course is to provide with state of the art. manufacturing technologies. Possibilities of process planning of different part types. Get to know the selected processing methods of the cylindrical, conic and thread element. Methods and means of plastic and abrasive finishing processes.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	K6_U08		Student can use framework technological processes to prepare technological documentation. Selects the right data to describe the technological process.			[SU5] Assessment of ability to present the results of task			
	K6_W07		He can prepare a technological project for typical machine parts such as a shaft and single body.			[SW3] Assessment of knowledge contained in written work and projects			
	K6_U06		realization of selected process			[SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	LECTURE Systematic of advanced shaping processes. Structure of technological process and documentation. Starting data for production process plan, manufacturing equipment, semi-workpiece selection. Shaping external surfaces. Processing of the cylindrical, conic and thread elements. Methods and means of plastic and abrasive finishing processes. Shaping internal cylindrical surfaces and threads. Methods and means of plastic and abrasive finishing processes. Fixing, clamping and setting of workpiece. symbols. PROJECT Manufacturing process plan of shaft (technological documentation, tool and fixture selection). Manufacturing process plan of frame (technological documentation, tool and fixture selection).								
Prerequisites and co-requisites	Cutting processes, Metrology								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Project		60.0%			40.0%			
and criteria	Project		60.0%			40.0%			

Recommended reading	Basic literature	Feld M.: Podstawy projektowania procesów technologicznych typowych części maszyn. WNT, Warszawa, 2003.				
		Olszak W.: Obróbka skrawaniem. WNT, Warszawa, 2008.				
		Żebrowski T.: Techniki wytwarzania. Obróbka wiórowa, ścierna, erozyjna. WPW, Wrocław, 2004.				
		Poradnik inżyniera. Obróbka skrawaniem. T. I-III, WNT, Warszawa 1993.				
	Supplementary literature	M. Feld Uchwyty obróbkowe WNT.				
		P. Cichosz Narzędzia skrawające WNT.				
	eResources addresses	Adresy na platformie eNauczanie:				
		Wybrane zagadnienia z technologii maszyn, W/P, IMM, sem 5, zima 22-23(PG_00024939) - Moodle ID: 27247 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27247				
Example issues/ example questions/ tasks being completed	Present a sequence of processes in manufacturing process plan. (for sleeve without hardening).					
ů i	Characterize broaching process.					
Work placement	Not applicable					