

Subject card

Subject name and code	Manufacturing Techniques 2, PG_00049765								
Field of study	Power Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
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			
T i			culty of I						
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor	dr hab. inż. Jacek Tomków							
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type Number of study hours	Lecture 15.0	Tutorial 0.0	Laboratory 15.0	O.0	:t	Seminar 0.0	SUM 30	
	E-learning hours inclu	ided: 0.0							
Learning activity and number of study hours	Learning activity	i		Participation in consultation hours		Self-study		SUM	
	Number of study hours	<u>'</u>		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 outcome Subject outcome Method of verification						erification		
	[K6_U02] is able to a learned mathematica the analysis and des elements, systems a systems								
	[K6_W05] has struct knowledge in the fiel engineering and elec necessary to undersi basics of operation a of electrical machine transmission system electronic devices								
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	Subject passin	g criteria	Pass	sing threshold		Pei	rcentage of th	e final grade	
and criteria	Reports		0.0%			40.0%			
	Final test		60.0%			60.0%			

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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	1. Parameters characterize the geometric structure of the surface, Measurement length and evaluation length, 3. Characterize machining allowances, 4. Bases in the manufacturing process, 5. The relationship between class of the accuracy of the components and the structure of the surface 6. What is the technological base?, 7. Operation in the manufacturing process, 8. Characterize the machining process, 9. Characterize the incremental method, 10. The method of manufacture of plastics components, 11. Characterise EDM process.						
Work placement	Not applicable						

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