

## Subject card

Subject name and code	Devices of Production Systems, PG_00039921									
Field of study	Mechanical Engineering, Mechanical Engineering									
Date of commencement of studies	October 2020		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	6		ECTS credits			2.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology									
Name and surname	Subject supervisor	prof. dr hab. inż. Adam Barylski								
of lecturer (lecturers)	Teachers		prof. dr hab. inż. Adam Barylski							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM		
	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		Participation in consultation hours		Self-study		SUM		
	Number of study hours	30		6.0		14.0		50		
Subject objectives	Rules of universal workholders. Designs special workholders.									
Learning outcomes	Course out	Subject outcome			Method of verification					
	[K6_U09] is able to plan the manufacturing, assembly and quality control processes of typical constructions and mechanical devices, estimating their costs				[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task					
	[K6_W08] possesses basic knowledge including the methodology of designing machine parts, mechanical devices, selection of construction materials, manufacturing and operation, with the lifetime cycle [K6_W06] possesses elementary knowledge on automatics and robotics of mechanical systems					[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation				
Subject contents	LECTURE: Significan					[SW3] contair project nufactu	Assessment of the distribution of the distribu	of knowledge work and		
	influcencing on accuracy of workholger development. Setting an object in the workholder. Fastening an object in the workholder. Setting and fixing workholder in the machining tool. Principles of workholder design. Lathe chucks. Drill chucks. Milling fixtures. Modular fixtures. Toolholders. Assembly instrumentation Instrumentation of transportation, manipulators and robots. Rules of computer aided and management of workplace aids. Pronciples of universal fixtures usage. Costs of instrumentation. PROJECT: Skills of setting and fastening objects in fixtures and implementation of machining fixture for a given operation.							cholder strumentation. agement of kills of setting		
Prerequisites and co-requisites	Knowledge from reco	rding design ar	nd manufacturi	ng engineering	J.					

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Project	60.0%	50.0%			
	Written paper	60.0%	50.0%			
Recommended reading	Basic literature	Feld M.: Uchwyty obróbkowe. WNT, Warszawa, 2002.  Dobrzański T.: Uchwyty obróbkowe. Poradnik konstruktora, WNT, Warszawa, 1987.				
	Supplementary literature	Normy przedmiotowe.  Poradnik inżyniera. Obróbka skrawaniem. T. I-III, WNT, Warszawa,				
		1993.				
	eResources addresses	Adresy na platformie eNauczanie:				
		Oprzyrządowanie systemów produkcyjnych - Moodle ID: 30589 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30589				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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