



## Subject card

Subject name and code	Machine Design - selected problems, PG_00052231						
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					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			English		
Semester of study	6	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Michał Wasilczuk					
	Teachers	prof. dr hab. inż. Michał Wasilczuk mgr inż. Katarzyna Mazur dr inż. Grzegorz Rotta					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	15.0	0.0	0.0	45
	E-learning hours included: 0.0						
	Machine Design - selected problems (M:320384W0) - Moodle ID: 29736 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29736">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29736</a>						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study	SUM	
	Number of study hours	45	0.0		0.0	45	
Subject objectives	presenting knowledge on selected problems in Machine Design teaching and practising basic skills utilized in design						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_U07	Student can design a typical mechanical device			[SU1] Assessment of task fulfilment		
	K6_U01	Student is able to find relevant information from technical literature, databases, etc			[SU1] Assessment of task fulfilment		
	K6_W12	Student has basic knowledge on social, economical and environmental contexts of engineering activity			[SW1] Assessment of factual knowledge		
	K6_W08	Student has basic knowledge on methods of designing machine elements			[SW1] Assessment of factual knowledge		
Subject contents	shafts, bearings, hub shaft joints, fatigue						
Prerequisites and co-requisites	mechanics, strength of materials, technical drawing						
Assessment methods and criteria	Subject passing criteria	Passing threshold		Percentage of the final grade			
	lecture	50.0%		50.0%			
	project	100.0%		50.0%			
Recommended reading	Basic literature	Shigley Handbook in Machine Design					
	Supplementary literature	.....					
	eResources addresses						
Example issues/ example questions/ tasks being completed	graphical tasks						
Work placement	Not applicable						