



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						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=15341						
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	mechnics, 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		Adresy na platformie eNauczanie: Machine Design - selected problems (M:320384W0) - Moodle ID: 29736 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29736				

Example issues/ example questions/ tasks being completed	graphical tasks
Work placement	Not applicable