GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Machine Design - selected problems, PG_00052231		
Field of study	Mechanical Engineering		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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 -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Michał Wasilczuk	
	Teachers		

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

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_U01	Student is able to find relevant information from technical literature, databases, etc	[SU1] Assessment of task fulfilment
K6_W08	Student has basic knowledge on methods of designing machine elements	[SW1] Assessment of factual knowledge
[K6_W12] possesses basic knowledge necessary to understand the ex-technical conditions of engineering activity, possesses basic knowledge on management, including quality management and running commercial enterprise, within the range of protection of intellectual property and patent law; knows general principles of creating and developing forms of individual entrepreneurship and basic HSE rules applicable to machine industry	Student has basic knowledge on social, economical and environmental contexts of engineering activity	[SW1] Assessment of factual knowledge
K6_U07	Student can design a typical mechanical device	[SU1] Assessment of task fulfilment

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:

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

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