

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Intermidiate CDIO Project, PG_00049760								
Field of study	Power Engineering, Power Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
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			English			
Semester of study	5		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Mechanics and Machine		Design -> Faculty of Mechanical Engineering and Ship Technology					hnology	
Name and surname of lecturer (lecturers)	Subject supervisor dr hab. inż. Jacek Łubiński								
	Teachers dr hab. inż. Jacek Łubiński								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	45.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		3.0		27.0		75	
Subject objectives	Mechanical design ar	nd CAD skills d	evelopment.						
Learning outcomes	Course outcome Subject outcome Method of verification								
	[K6_U11] Can design and properly dimension basic foundations in hydrotechnical construction facilities; can evaluate and list the loads acting on constructions, knows the codes of modern geotechnical investigations and technologies, knows the principles of foundations and safe design of foundations of typical buildings		can obtain information from literature and other sources			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	[K6_W10] knows the basic installations in the field of renewable energy sources and their impact on the environment		can obtain information from literature and other sources			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	[K6_U02] is able to apply the learned mathematical methods to the analysis and design of elements, systems and energy systems		can obtain information from literature and other sources			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
Subject contents	[K6_W09] knows the dangers of electrical devices and the principles of protection against them, has basic knowledge of heat exchangers, has basic knowledge of power equipment such as pumps, compressors, turbines, combustion engines, boilers, pipelines and their accessories and methods of their selection depending on the needs		can obtain information from literature and other sources			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
Subject contents									

Prerequisites and co-requisites	Any CAD software usage ability					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	project progress	60.0%	100.0%			
Recommended reading	Basic literature	Autodesk Inventor User's Guide for issues 2023 and higher, or equivalent source book NX Basic Design with Teamcenter Integration - Student Guide October 2011 NX8 Siemens NX7 manual				
	Supplementary literature FUNDAMENTALS OF 3D DESIGN AND SIMULATIO		AND SIMULATION - <u>Gaettan</u>			
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Existing design modification based on new requirements.					
Work placement	Not applicable					

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