GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Computer Aided Design, PG_00060648		
Field of study	Transport and Logistics		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Institute Of Naval Architecture -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Jacek Nakielski	
	Teachers		

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	30.0	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	4.0	51.0	100

Subject objectives

The aim of the course is to familiarize students with the capabilities of computer-aided design (CAD).

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K01] is aware of the need for continuous improvement in the field of the profession and knows the possibilities of further education	The student can use selected CAD tools at an appropriate level, but is also aware that more advanced possibilities of using a given program require self-education.	[SK2] Assessment of progress of work
[K6_U03] is able to use computer methods to support the design, development and operation of transport means and systems	Using CAD tools, the student is able to calculate, model and prepare technical documentation of a selected device.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools
[K6_W06] has established knowledge of engineering methods and design tools enabling the implementation of projects in the field of construction and operation of transport means and systems	The student has solid knowledge of computer-aided design (CAD).	[SW1] Assessment of factual knowledge

Subject contents

Lecture

The lecture will cover the presentation of the possibilities of computer-aided design (CAD), mainly based on Autodesk's Inventor software.

Project

During the project, students will familiarize themselves with the practical capabilities of CAD software. As part of the classes, they will be required to design a simple lift. Then, based on calculations, they will model the lift in the Inventor environment.

Prerequisites and co-requisites

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	51.0%	50.0%
	Lecture	51.0%	50.0%
Recommended reading	Basic literature	- Sydor M.; Wprowadzenie do CAD. Podstawy komputerowo wspomaganego projektowania, Wyd. Naukowe PWN, Warszawa 2009 - Markiewicz R., Bis J.; Komputerowe wspomaganie projektowania CAD podstawy, Wyd. Rea, Lesznowola 2009 - Romanowicz P.; Rysunek techniczny maszynowy z elementami CAD: Opracowanie zgodne z normami na 2021 r., Wyd. Naukowe PWN, Warszawa 2021	
	Supplementary literature	- Kurmaz L. W.; Podstawy konstrukcji maszyn. Projektowanie dla studentów wydziału mechanicznego, Wyd. Politechniki Świętokrzyskiej, Kielce 1997 - Dobrzański T.; Rysunek techniczny maszynowy, Wyd. Naukowe PWN, Warszawa 2021	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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