



Subject card

Subject name and code	Computer Aided Design, PG_00060648						
Field of study	Transport and Logistics						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
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 Ocean Engineering and Ship Technology -> Faculty of Mechanical Engineering and Ship Technology						
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_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		
	[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.			[SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
	[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		
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
	Lecture	51.0%	50.0%
	Project	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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