

Subject card

Subject name and code	Computer-Aided Design in Electrical Engineering, PG 00062601									
Field of study	TECHNIKI CAD W PRACY INŻYNIERA									
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			Polish				
Semester of study	6		ECTS credits			4.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Department of Electrified Transportation -> Faculty of Electrical and Control Engineering -> Faculties of Gdańsk University of Technology									
Name and surname	Subject supervisor	Subject supervisor dr hab. inż.			Andrzej Wilk					
of lecturer (lecturers)	Teachers									
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60		
	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	60		5.0		35.0		100		
Subject objectives	 Learning computer-aided 2D sketching techniques using geometric modification, transformation and constraint tools. Creating 3D computer models using 2D model to 3D model transformation. Acquiring skills in creating partial assemblies and the entire assembly using 3D parts. Learning modern computer-aided technical documentation techniques. 									
Learning outcomes	Course outcome		Subject outcome			Method of verification				
	K6_W10		It implements offshore energy resource projects			[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym				
	K6_U09		Selects electrical power equipment for various load conditions.			[SU1] Ocena realizacji zadania				
	K6_K01		He selects modern CAD techniques for the implementation of electrical engineering projects.			[SK2] Ocena postępów pracy [SK5] Ocena umiejętności rozwiązywania problemów występujących w praktyce				
	K6_K05		Defines the hazard in emergency situations			[SK3] Ocena umiejętności organizacji pracy				

Subject contents	Course content – lecture Lecture and laboratory 1. 2D graphic modeling techniques: modifications, transformations and bonds in 2D. 2. 3D modeling techniques 3. Creating assemblies based on part files. 4. Developing engineering animations. 5. Modern methods of preparing technical documentation. 6. Basics of modal analysis of solid objects in electrical engineering. 7. Selected analyzes of computer-aided engineering calculations. 8. 3D modeling of wire and cable harnesses.						
Prerequisites and co-requisites	No requirements						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Lecture 40%, Laboratory 60%	60.0%	100.0%				
Recommended reading	Basic literature	Jaskulski A.: Autodesk Inventor Professional 2024 PL / 2024+ / Fusion 360. Metodyka efektywnego projektowania, wydawnictwo HELION					
	Supplementary literature	Bordino A.: Autodesk Inventor 2023 Cookbook. A guide to gaining advanced modeling and automation skills for design engineers through actionable recipes, eBook					
	eResources addresses						
Example issues/ example questions/ tasks being completed	What are the tools for creating assemblies or subassemblies from parts of files? What are adaptive sketches and parts?						
Practical activites within the subject	Not applicable						

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