GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Computer-Aided Design in Electrical Engineering, PG_00038418		
Field of study	Electrical Engineering		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2022/2023
Education level	first-cycle studies	Subject group	
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	5	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Electrical Engineering of Transport -> Faculty of Electrical and Control Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Andrzej Wilk	
	Teachers	dr hab. inż. Andrzej Wilk dr inż. Łukasz Sienkiewicz	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	20.0	0.0	10.0	0.0	0.0	30

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	30	5.0	65.0	100

Subject objectives

The main objective of the course is learning of basic and advanced computer aided design techniques using selected commercial CAD/CAE software.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_K01	Student is aware to continuous learning	[SK5] Assessment of ability to solve problems that arise in practice
K6_K05	Student knows these principles	[SK3] Assessment of ability to organize work

Subject contents

2D and 3D computer modeling on sketches. Transformation tools for drawing object on sketches. 3D computer modeling of solid objects. Constraints types for parts connection. Assmebly kinematics. Creating of elctronic technical dokumentation. Basics of assembly and disassembly animation.

Prerequisites and co-requisites

No requirements

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Test	60.0%	50.0%
Computer project	100.0%	50.0%

Recommended reading

Basic literature	Tremblay T.: Autodesk Inventor 2014. Oficjalny podręcznik. Wydawnictwo Helion. 2015
Supplementary literature	K. Kapias: Inventor. Praktyczne rozwiązania. Wydawnictwo Helion
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

Advanced 3D computer methods

Work placement

Not applicable