

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	Engineering Graphics , PG_00029506							
Field of study	Nanotechnology							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
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			Polish		
Semester of study	5		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Zakład Konstrukcji Maszyn i Inzynierii Medycznej -> Institute of Mechanics and Machine Design -> Faculty Mechanical Engineering and Ship Technology						gn -> Faculty of	
Name and surname	Subject supervisor	dr inż. Katarzyna Zasińska						
of lecturer (lecturers)	Teachers		mgr inż. Marek Łubniewski					
		dr inż. Katarz	dr inż. Katarzyna Zasińska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours inclu							
Learning activity and number of study hours	Learning activity Participation ir classes include plan				Self-study		SUM	
	Number of study 45 hours			5.0		50.0		100
Subject objectives	Introduction to engineering graphics. Engineering graphics a fundamental tool for conveying information about machine components. Representation of bodies (machine components) by projection: perpendicular, axonommetry etc Technical drawing - fundamental tool for engineering information exchange.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	К6_К04		Student interprets technical documentation created accordingly to technical drawing standards		[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness			
	K6_U03		Student can create simple 2D drawings and 3D models using a selected industry standard CAD package.			[SU1] Assessment of task fulfilment		
	K6_W04		Student has basic knowledge of creating 3D models and technical documentation in CAD programs.		[SW1] Assessment of factual knowledge			
Subject contents	A role of graphics in engineering activity. Introduction to an individual graphical description of technical objects. Orthogonal and axonometric projections. Orthogonal projections: points, lines, planes, polyhedrons, solids. True sizes of geometrical elements. Relations of geometrical elements. Intersection of surfaces. Projections of partial solids. Geometrical designing of technical objects by the use of polyhedrons, solids and planes. Views, sections, revolved and removed sections of machine elements. Dimensioning of lengths, diameters, angles. Tolerances of dimensions, fits. Description of surface attributes of machine elements. Location of elements on a drawing. Drawing rules of working and assembly drawings. Standardization in engineering graphics.							

Prerequisites and co-requisites					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade		
	Midterm colloquium	56.0%	20.0%		
	Laboratory excercise reports	100.0%	80.0%		
Recommended reading	Basic literature	Technical Drawing for Mechanical Engineers Handbook Fundamentals of machine design Mechanical Engineering			
	Supplementary literature No recommendations				
	eResources addresses	Adresy na platformie eNauczanie: Grafika Inżynierska II, W, L, Nanotechnologia, sem 05, zimowy 2023/2024 (NAN1B0021) - Moodle ID: 34746 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34746			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				