



## Subject card

Subject name and code	Computer Aided Design, PG_00055787						
Field of study	Design and Construction of Yachts						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			7.0		
Learning profile	practical 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. Wojciech Leśniewski					
	Teachers	dr inż. Wojciech Leśniewski dr inż. Daniel Piątek mgr inż. Ewa Wojtowicz					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	30.0	0.0	30.0	0.0	90
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	90	16.0		69.0		175
Subject objectives	<ul style="list-style-type: none"><li>- Development of spatial imagination,</li><li>- Understanding the rules for the implementation of technical documentation,</li><li>- Ability to perform drawing sketches of machine components,</li><li>- Ability to perform technical drawings;</li></ul>						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_W04	The Student is able to prepare 2D drawing documentation (projections, dimensions) of spatial solids and machine parts in accordance with the applicable RT rules			[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	K6_U01	The Student proficiently uses design-aided software (AutoCAD) and uses it to prepare 2D drawing documentation			[SU1] Assessment of task fulfilment		
Subject contents	LECTURE and TUTORIALS <ul style="list-style-type: none"><li>- The role of engineering graphics, basics of normalization,</li><li>- Projections of parallel, rectangular and axonometric,</li><li>- Point, line, plane, determination, common points, specific locations,</li><li>- Solids of revolution and polyhedrons, puncture, cut, penetration,</li><li>- Views, examples, cross-sections,</li><li>- Dimensioning of components, dimensional tolerance, determination of the surface condition,</li><li>- Types of drawings, graphic form sheet, rules for the design documentation;</li></ul>						

Prerequisites and co-requisites	- Knowledge of geometry, - Knowledge of basic machines and their construction;		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lecture colloquium	60.0%	50.0%
	tutorials tech. drawings	60.0%	50.0%
Recommended reading	Basic literature	DOBRZAŃSKI, T.: Rysunek techniczny maszynowy. WNT, 2004  MIERZEJEWSKI, W.: Geometria wykreślna. Rzuty Monge'a. Oficyna Wyd. P. War., 2006	
	Supplementary literature	ROMANOWICZ P.: Rysunek techniczny w mechanice i budowie maszyn  FILIPOWICZ K., KUCZAJ M., KOWAL A.: Rysunek techniczny,  BURCAN J.: Podstawy rysunku technicznego  PIKOŃ A.: AutoCad 2019 Pierwsze kroki  Autodesk Inventor 2014. Oficjalny podręcznik	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		