

Subject card

Subject name and code	Introduction to Design and Engineering Graphics, PG_00040523								
Field of study	Engineering Manage	ment							
Date of commencement of studies	October 2020		Academic year of realisation of subject			2020/2021			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research in the field of study			
Mode of study	Part-time studies		Mode of delivery			blended-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			3.0	3.0		
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics								
Name and surname	Subject supervisor dr inż. Krzysztof Redlarski								
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Redlarski						
		dr inż. arch. k	e-Brykal	ska					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	16.0	0.0	16.0	0.0		0.0	32	
	E-learning hours included: 16.0								
	Adresy na platformie eNauczanie:								
	Podstawy projektowania i grafika inżynierska - NSTAC - Moodle ID: 1795 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1795								
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan		Participation in consultation hours		Self-s	tudy	SUM	
	Number of study hours	32		6.0		37.0		75	
Subject objectives	Student knows design methodology. Student can draw basic technical drawings and correctly read drawings.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W05] knows the statistical and IT methods and tools that enable the acquisition and presentation of data on the organisation's resources, including technical resources		Student knows technicall drawings norms			[SW1] Assessment of factual knowledge			
	[K6_U06] uses basic theoretical knowledge to solve selected organizational problems, design technical solutions and manage projects, including engineering projects		knows the design methodology			[SU4] Assessment of ability to use methods and tools			
Subject contents	LECTURE Presentation of design theory. The importance of proper design in the work of an engineer and designer. Formulation of design problem. Design process. Silhouette designer. Creative thinking. DESIGN EXERCISES Implementation of handwritten drawings. Rules for drawing the various elements of technical drawing machine. Drawing dimensioning and descriptions of technical drawings. Draw connection of machines and equipment. Drawing złożeniowych drawings. Draw diagrams of the various fields of technology.								
Prerequisites and co-requisites		-	-						
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	Written exam		ů – ř			30.0%			
and chiena	Wintten exam		00.0%		I	30.070			

Recommended reading	Basic literature	1. Tadeusz Dobrzański: "Rysunek techniczny maszynowy" (wyd. 24), WNT Warszawa, 2005 2. J. Mazur, K. Kosiński, K. Polakowski: "Grafika inżynierska z wykorzystaniem metod CAD", Wydawnictwo Politechniki Warszawskiej 2006r. 3. Wojciech Gasparski: "Projektowanie", PWN, Warszawa 1978 i nowsze.				
	Supplementary literature	1. Dostępna literatura dotycząca projektowania.				
	eResources addresses	Podstawy projektowania i grafika inżynierska - NSTAC - Moodle ID: 1795 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=1795				
Example issues/ example questions/ tasks being completed	Design process.					
	Designer.					
	Basics of technicall drawings.					
Work placement	Not applicable					