

## Subject card

Subject name and code	Bulilding structures and technologies II, PG_00052645								
Field of study	Architecture								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			English			
Semester of study	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Jarosław Przewłócki						
	Teachers		dr inż. Tomasz Falborski						
			dr inż. Natalia Lasowicz						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15	1.0			9.0		25	
Subject objectives	The aim of the subject is o familiarize students with basic informations related to manufacturing and design of steel elements and their connections.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_U02] is able to design an architectural object or a simple urban complex that meets the aesthetic and technical requirements		load-bearing elements of the structure taking into account			[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design		Student is able to solve simple engineering tasks in the field of architectural and urban design. Moreover student knows the basics of building design, building materials and is able to solve construction problems concerning designing of buildings.			[SW2] Assessment of knowledge contained in presentation			
Subject contents	Steel as a building ma	aterial.							
	Assortment of steel products.								
	Mechanical properties of steel.								
	Steel beams								
	Steel columns.								
	Bolted and welded co	onnections.							

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Prerequisites and co-requisites	Structural Design and Mechanics and General Building Technolgies					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	test	60.0%	50.0%			
	presentation	60.0%	50.0%			
Recommended reading	Basic literature	<ol> <li>Praca zbiorowa: Budownictwo ogólne. Tom 5, Arkady, Warszawa 2010</li> <li>Rykaluk K.: Konstrukcje stalowe. Dolnośląskie Wydawnictwo Pedagogiczne, Wrocław 2001.</li> <li>Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings</li> <li>Eurocode 3: Design of steel structures - Part 1-8: Design of joints</li> </ol>				
	Supplementary literature  1. Łubiński M., Filipowicz A., Żółtowski W.: Konstrukcje metalowe. Część 1. Arkady, Warszawa 2000. 2. Żmuda J.: Podstawy projektowania konstrukcji metalowych. Arkady, Warszawa 1997.					
	eResources addresses Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Combination of loads					
	Local anf global loss of stability					
	Type of connections used in steel structures					
Work placement	Not applicable					

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