

Subject card

Subject name and code	Construction Project III, PG_00061531								
Field of study	Architecture								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026			
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			English			
Semester of study	5		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Building Engineering -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	45.0		0.0	45	
	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	45		5.0		25.0		75	
Subject objectives	The aim of the course is to design the main structural members of the building and to prepare technical drawings. Moreover, the execution of details of the architectural object.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
[K6_W01] knows and under construction problems, built and engineering issues relabuilding design; principles, solutions, constructions and building materials used in sengineering tasks in the fied architectural and urban destructions and methods to formulate and sproject tasks		as, building les related to ciples, ons and led in simple the field of	profiles of the main load-bearing structural member of the structure and propose their connections			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
						[SU4] Assessment of ability to use methods and tools			

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Subject contents	1.Collection of loads acting on structures (characteristic and design values).						
	Determination of load combinations.						
	Verification of the Ultimate Limit State for the following steel elements:						
	- subjected to bending (girder, beam),						
	- subjected to compression (column).						
	4. Serviceability Limit State for the following steel elements:						
	- subjected to bending (girder, beam),						
	- subjected to compression (column).						
	5. Preparation of a construction drawing.						
	6. Preparation of details of the foundation, wall, floor and roof.						
Prerequisites and co-requisites	Before starting the course, student should complete the following subjects:						
	- General Mechanics,						
	- General Building Technolgy.						
	Student should know the basics of structural mechanics and be able to distinguish different types of structural members. Moreover he can adopt the structural system of the building.						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	design project	60.0%	50.0%				
	Technical drawings	60.0%	50.0%				
							

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Recommended reading	Basic literature	1. PN - EN 1991 - 1 - 3:2003 Eurokod 1. Oddziaływania na			
Trecommended reading		konstrukcję. Część 1 - 3: Oddziaływania ogólne - Obciążenie śniegiem.			
		2. PN - EN 1991 - 1 - 4:2008 Eurokod 1. Oddziaływania na konstrukcje. Część 1 - 4:Oddziaływania ogólne - Oddziaływania wiatru.			
		Nonstrukoje. Ozęse 1 - 4.Oddziaływania ogonie - Oddziaływania wiatru.			
		O DN EN 4000 4 Everland De determination in la restricti			
		3. PN - EN 1990 - 1 Eurokod - Podstawy projektowania konstrukcji.			
		4. PN-EN 1993-1-1 Eurocode 3: Design of steel structures. Part 1-1: General rules and rules for buildings			
		Concrain falco and falco for ballango			
		5 Personalisassas Budassaistas antika Tara 5 Adada Masansas			
		5. Praca zbiorowa: Budownictwo ogólne. Tom 5, Arkady, Warszawa 2010 2.Łubiński M., Filipowicz A., Żółtowski W.: Konstrukcje metalowe.			
		Część 1. Arkady, Warszawa 2000.			
		6.Rykaluk K.: Konstrukcje stalowe. Dolnośląskie Wydawnictwo			
		Pedagogiczne, Wrocław 2001.			
		7. Praca zbiorowa pod red. A. Kozłowskiego: Konstrukcje stalowe. Przykłady obliczeń według PN-EN 1993-1. Cześć pierwsza. Wybrane			
		elementy i połączenia, Oficyna Wydawnicza PRz, Rzeszów 2009 6.			
		8. PN-EN 1993-1-8 Eurocode 3: Design of steel structures. Part 1-8:			
		Design of joints.			
	Supplementary literature				
		Praca zbiorowa pod red. A. Kozłowskiego: Konstrukcje stalowe.			
		Przykłady obliczeń według PN-EN 1993-1. Część druga. Stropy i			
		pomosty, Oficyna Wydawnicza PRz, Rzeszów 2011.			
		2. Goczek J., Supeł Ł., Gajdzicki M.:Przykłady obliczeń konstrukcji stalowych, Wydawnictwo PŁ, Łódź 2010			
		Statowych, wydawnictwo FL, Łodz 2010			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/	1.Based on the given values of internal forces, determine the cross-section of the beam subjected to				
example questions/	bending.	·			
tasks being completed					
	 Find the design and characteristic value of the loads acting on the floor beam. List the main structural elements of the roofing system supported on steel beams. Draw, in cross-section, the layout of the roof layers of the insulated steel hall. 				
Work placement	Not applicable				
Work placement	- ×FF				

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