

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Teiled of study       Civil Engineering         Date of commencement of studies       October 2023       Academic year of realisation of subject       2024/2025         Education level       first-cycle studies       Subject group       at the university         Mode of study       Full-time studies       Mode of delivery       at the university         Year of study       2       Language of instruction       Polish         Semester of study       4       ECTS credits       3.0         Learning profile       general academic profile       Assessment form       assessment         Conducting unit       Department of Building Engineering -> Faculty of Civil and Environmental Engineering       Subject supervisor       dr inz. Wojciech Migda         of lecturer (lecturers)       Teachers       Elesson type       Lecture       Tutorial       Laboratory       Project       Seminar       SUM         Learning activity and number of study hours       Learning activity       Participation in didactic classes included in study       Participation in consultation hours       Self-study       SUM         Learning outcomes       Course outcome       Students present the result of their tas a paper structure as a team. The final stage is to check the structure under load.         Learning outcomes       [K6_K03] Can effectively, clearly information, describe active acording to de	Subject name and code	, PG_00062836							
Date of commencement of studies         October 2023         Academic year of realisation of subject         2024/2025           Mode of study         First-cycle studies         Subject group         at the university           Mode of study         Full-time studies         Mode of delivery         at the university           Year of study         2         Language of instruction         Polish           Semester of study         4         ECTS credits         3.0           Learning profile         general academic profile         Assessment form         assessment           Conducting unit         Department of Building Engineering -> Faculty of Civil and Environmental Engineering         Subject supervisor         drinz. Wojclech Migda         definits.           Clearning porfile         general academic profile         Learning nours included: 0.0         0.0         0.0         0.0         30.0           Learning activity and number of study hours         Learning nours included: 0.0         Learning nours included: 0.0         Learning nours included: 0.0         Learning requirements and then b tras a paper structure as the structure of specific span and load-bearing requirements and then b tras a paper structure as the structure of specific span and load-bearing requirements and information, simulations, experimental memory and understading of research methods (ortalining information, simulations, experimental methods) in the field ocommunicate their results'         Students ponthy	-								
Mode of study         Full-time studies         Mode of delivery         at the university           Year of study         2         Language of instruction         Polish           Semester of study         4         ECTS credits         3.0           Learning profile         general academic profile         Assessment form         assessment           Conducting unit         Department of Building Engineering >> Faculty of Civil and Environmental Engineering         Tachers           Leason types and methods         Lesson types in the diversity         Init. Wojciech Migda         SUM           of instruction         Learning nours included 0.0         0.0         0.0         30.0         0.0         30           Learning activity and number of study hours         Learning activity         Participation in didactic classes included in study         Participation in consultation hours         Self-study         SUM           Subject objectives         The aim of the course is to design a structure for specific span and load-bearing requirements and then bit as a paper structure as a team. The final stage is to check the structure local.         Sudents present the result of their communication rether ourse is to design a structure for specific span and load-bearing requirements and then bit addent addent in structure in the four of a group, as well as function in teams, which may consist of representatives of various bit as a paper structure as a team. The final stage is to check the structure locad.	Date of commencement of						2024/2025		
Induct of tabley         Polish           Year of study         2         Language of instruction         Polish           Semester of study         4         ECTS credits         3.0           Learning profile         general academic profile         Assessment form         assessment           Conducting unit         Department of Building Engineering -> Faculty of Civil and Environmental Engineering         Engineering           Name and summame of lecturer (lecturers)         Treachers         Treachers         Eleason type           Lesson types and methods         Lesson type include: 0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         30.0           Learning activity and number of study hours         Learning activity         Participation in didectic classes included in study         Participation in didectic classes included in study         SUM         SUM           Subject objectives         The eim of the course is to design a structure for specific span and load-bearing requirements and then b it as a paper structure as a term. The final stage is to check the structure under load.         SUM           Learning outcomes         Course outcome         Subject outcome         Method of verification           If & K02] Can effectively, clearly and unambiguously convery information, describe activities and communication methods and tools.         Sudents porting design ast	Education level	first-cycle studies							
Semester of study         4         ECTS credits         3.0           Learning profile         general academic profile         Assessment form         assessment           Conducting unit         Department of Building Engineering -> Faculty of Civil and Environmental Engineering         of instruction           Name and surname of lecturer (lecturers)         Teachers         into a seessment         Subject supervisor           Lesson types and methods of instruction         Lesson type         Lecture         Tutorial         Laboratory         Project         Seminar         SUM           Learning activity and number of study hours         Learning nours included: 0.0         0.0         0.0         0.0         0.0         30           Subject objectives         The aim of the course is to design a structure for specific span and load-bearing requirements and then bit it as a paper structure as a team. The final stage is to check the structure under load.         Method of verification           Learning outcomes         Course outcome         Subject outcome         Method of verification           Information, simulations, experimental methods, and loads.         Subject outcome of a mit or results/ and unambiguously convey information, secrete activities and course outcome and course according to design assumptions.         Sudents perform numerical calculations for the design assumptions.           Information, simulations, experimental methods in the field of covid engineens	Mode of study	Full-time studies				at the university			
Contraction         Construction         Assessment           Learning profile         general academic profile         Assessment form         assessment           Conducting unit         Department of Building Engineering -> Faculty of Civil and Environmental Engineering         Teachers           Lesson types and methods         Lesson type         Lecture         Tutorial         Laboratory         Project         Seminar         SUM           Number of study hours         Learning activity         Learning nours included: 0.0         Learning nours included: 0.0         Learning nours included: 0.0         Learning activity         SUM           and number of study hours         Learning activity         Learning nours included: 0.0         0.0         0.0         0.0         0.0         30           Subject objectives         The am of the course is to design a structure for specific span and load-bearing requirements and then built as a paper structure as a team. The final stage is to check the structure under load.         Method of verification           Learning outcomes         Course outcome         Students present the rout of the form of a group, as well as function is engineers or a wider audience using appropriate communication methods and tools.         Students pintly design and create (SK2) Assessment of progress conding to design assumptions, simulations, experimental methods is t	Year of study	2					Polish		
Conducting unit         Department of Building Engineering -> Faculty of Civil and Environmental Engineering           Name and sumame of lecturer (lecturers)         Subject supervisor         dr in2. Wojclech Migda           Lesson types and methods         Lesson type         Lecture         Tutorial         Laboratory         Project         Seminar         SUM           I consultation of instruction         Number of study         0.0         0.0         0.0         0.0         0.0         30           Learning activity and number of study hours         Learning activity         Participation in didactic cases included in study         Participation in didactic cases included in study         Self-study         SUM           Subject objectives         The aim of the course is to design a structure for spacific span and load-bearing requirements and then b it as a paper structure as a team. The final stage is to check the structure under load.         Students present the result of their regeneration.         [SK4] Assessment of communication stills, including language correctness           Learning outcomes         K6_K.03] Can weft aefunction in it as a paper structure as a team. The final stage is to check the structure under load.         [SK4] Assessment of progress or work           Learning outcomes         K6_K.03] Can weft aefunction in teams. which may consist of representatives of various branches and levels (botaining information, describe activities and construction in methods and tools.         Students preform numericlal calcidations f	Semester of study	4	ECTS credits			3.0			
Name and summare of lecturer (lecturers)         Subject supervisor         dr inz. Wojclech Migda           Lesson types and methods         Lesson type         Lecture         Tutorial         Laboratory         Project         Seminar         SUM           Instruction         Number of study         0.0         0.0         0.0         30.0         0.0         30           Learning activity and number of study hours         Learning activity         Participation in didactic classes included in study plan         Participation in consultation hours         Self-study         SUM           Subject objectives         The aim of the course is to design a structure for spacific span and toach-bearing requirements and then bit it as a paper structure as a team. The final stage is to check the structure under load.         Subject outcome         Method of verification           Learning outcomes         Course outcome         Students present the result of their radiums using appropriate communication studier         Students present the result of their presentation.         [SK4] Assessment of progress of work           If 66, W031 Can were describely in a group as well as function in teams which may consist of regreser head work outcome.         Students present the result of their research methods (braining information, simulations, et of kind may consist of regreser head work outcome.         [SW2] Assessment of progress of work           If 66, W032 Demonstrate knowledge and headels.         Students preform numerical calculators for	Learning profile	general academic profile		Assessment form			assessment		
of lecturer (lecturers)         Teachers           Lesson types and methods of instruction         Lesson type         Lecture         Tutorial         Laboratory         Project         Seminar         SUM           Learning activity and number of study hours         Learning activity         Participation in didactic classes included in study         Participation in classes included in study         Participation in consultation hours         Self-study         SUM           Subject objectives         The aim of the course is to design a structure for specific span and load-bearing requirements and then built is a a paper structure as a team. The final stage is to check the structure under load.         Subject outcome         Subject outcome         Method of verification           Learning outcomes         Course outcome         Subject coutcome         Subject outcome         S	Conducting unit	Department of Building Engineering -> Faculty of Civil and Environmental Engineering							
Lesson types and methods of instruction         Lesson type         Lecture         Tutorial         Laboratory         Project         Seminar         SUM           of instruction         E-learning hours included: 0.0         0.0         0.0         30.0         0.0         30           Learning activity and number of study hours         Learning hours included: 0.0         Participation in didactic classes included in study plan         Participation in didactic consultation hours         Self-study         SUM           Subject objectives         The aim of the course is to design a structure for specific span and load-bearing requirements and then but it as a paper structure as a team. The final stage is to check the structure under load.         0.0         0.0         30           Learning outcomes         Course outcome         Students present the result of their information, describe activities and communication methods and tools.         Students present the result of their adulence using appropriate communication methods and tools.         Students present the result of their representatives of various branches and levels.         Students perform numerical calculations for the design assumptions.         [SK2] Assessment of progress c work           [K6, K02] Can work effectively in a group, as well as function in teams, which may consist of representives of various branches and levels.         Students perform numerical calculations for the design assumptions.         [Stu2] Assessment of knowledg contained in presentation         [Stu2] Assessment of task taff Structure. </td <td></td> <td colspan="6">Subject supervisor dr inż. Wojciech Migda</td> <td></td>		Subject supervisor dr inż. Wojciech Migda							
of instruction       Number of study hours       0.0       0.0       0.0       30.0       0.0       30         Learning activity and number of study hours       Learning activity plan       Participation in classes included in study plan       Participation in consultation hours       Self-study       SUM         Subject objectives       The aim of the course is to design a structure for specific span and load-bearing requirements and then but it as a paper structure as a team. The final stage is to check the structure under load.       0.0       0.0       0.0       30         Learning outcomes       [K6_K03] Can effectively, clearly and nambiguously convey information, describe activities and communication effectively in a group, as well as function in teams, which may consist of repersentatives of various branches and levels.       Students present the result of their teamwork in the form of a proventation.       [SK2] Assessment of progress c work         [K6_K02] Can work effectively in a group, as well as function in teams, which may consist of repersentatives of various branches and levels.       Students perform numerical calculations for the designed structure.       [SW2] Assessment of knowledg contained in presentation         [K6_U05] Demonstrate knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.       Students independently design the static schematic, of the structure.       [SU1] Assessment of task fulfilment         Subject contents       Adoption	of lecturer (lecturers)	Teachers							
hours         Image: Constraint of the constraint of the structure of the structure.					· · · · ·		t		
Learning activity and number of study hours         Learning activity plan         Participation in didactic classes included in study plan         Participation in consultation hours         Self-study         SUM           Subject objectives         The aim of the course is to design a structure for specific span and load-bearing requirements and then built as a paper structure as a team. The final stage is to check the structure under load.         Subject objectives         The aim of the course is to design a structure for specific span and load-bearing requirements and then built as a paper structure as a team. The final stage is to check the structure under load.           Learning outcomes         Course outcome         Subject outcome         Method of verification           View (KG) Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.         Students jointly design and create structures according to design assumptions.         [SK2] Assessment of progress of work           [K6, W05] Demonstrate knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of civil engineering.         Students perform numerical calculations for the designed structure.         [SU1] Assessment of task fulfiment           Subject contents         K6_U05] Ocnoucts research (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.         Students independentity design the structure's elements.         [SU1] Asse	of instruction	hours		0.0	0.0	30.0		0.0	30
and number of study hours       classes included in study plan       consultation hours       included in study plan       consultation hours       included in study plan       includen in study plan <t< td=""><td></td><td>-</td><td></td><td></td><td>De atieire etiere i</td><td></td><td>0 - 16 - 4</td><td></td><td></td></t<>		-			De atieire etiere i		0 - 16 - 4		
hours         The aim of the course is to design a structure for specific span and load-bearing requirements and then be it as a paper structure as a team. The final stage is to check the structure under load.           Learning outcomes         Course outcome         Subject outcome         Method of verification           [K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.         Students present the result of their teamwork in the form of a presentation.         [SK2] Assessment of communication skills, including language correctness           [K6_K02] Can work effectively in a group, as well as function in teams, which may consist of representatives of various branches and levels.         Students perform numerical calculations for the designed structure.         [SK2] Assessment of knowledg contained in presentation           [K6_V005] Demonstrate knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of civil engineering.         Students independently design the structure and determine the dimensions of the structure's elements.         [SU1] Assessment of task fulfilment           Subject contents         Adoption of design assumptions, Preparation of preliminary drawings (concept) of the structure. Creation on numerical model of the structure. Preparation of construction in the structure. Creation of numerical model of the structure. Preparation of construction of the structure.	Learning activity and number of study hours	Learning activity	classes includ				Self-study		SUM
It as a paper structure as a team. The final stage is to check the structure under load.           Learning outcomes         Course outcome         Method of verification           [K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and outcomes to engineers or a wider audience using appropriate communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.         Students present the result of their presentation.         [SK2] Assessment of comunication skills, including language correctness           [K6_K02] Can work effectively in a group, as well as function in teams, which may consist of representatives of various branches and levels.         Students perform numerical calculations for the design attructure.         [SK2] Assessment of progress of work           [K6_W05] Demonstrate knowledge and understanding of representatives of various branches and levels.         Students perform numerical calculations for the designed structure.         [SW2] Assessment of knowledg contained in presentation           [K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field construction in order to solve specific tasks and report research results.         Students independently design the static schematics of the structure's elements.         [SU1] Assessment of task fulfilment           Subject contents         Adoption of design assumptions, Preparation of preliminary drawings (concept) of the structure. Creation of numerical model of the structure. Preparation of construction drawings of structures. Construction of the			30		0.0		0.0		30
[K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.         Students present the result of their teamwork in the form of a presentation.         [SK4] Assessment of communication skills, including language correctness           [K6_K02] Can work effectively in a group, as well as function in teams, which may consist of representatives of various branches and levels.         Students present the result of their presentation.         [SK2] Assessment of progress of work           [K6_K05] Demonstrate knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of civil engineering.         Students perform numerical structure.         [SW2] Assessment of knowledge contained in presentation           [K6_U05] Demonstrate knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of civil engineering.         Students independently design the static schematic of the structure and determine the dimensions of the structure's elements.         [SU1] Assessment of task fulfiment           Subject contents         Adoption of design assumptions.Preparation of preliminary drawings (concept) of the structure.Creation of numerical model of the structure.Preparation of construction drawings of structures.Construction of the	Subject objectives	The aim of the course is to design a structure for specific span and load-bearing requirements and then build it as a paper structure as a team. The final stage is to check the structure under load.							
and functionation, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.       information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.       information, server function in teams, which may consist of representatives of various branches and levels.       information, simulations, experimental methods) in the field of civil engineering.       information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.       information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.       information, simulations, experimental methods in the field of construction in order to solve specific tasks and report research results.       information, of the structure. Creation of numerical model of the structure. Preparation of preliminary drawings (concept) of the structure. Creation of numerical model of the structure. Preparation of construction drawings of structures.	Learning outcomes	Course outcome		Subject outcome			Method of verification		
group, as well as function in teams, which may consist of representatives of various branches and levels.       structures according to design assumptions.       work         [K6_W05] Demonstrate knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of civil engineering.       Students perform numerical calculations for the designed structure.       [SW2] Assessment of knowledge contained in presentation         [K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of civil engineering.       Students independently design the static schematic of the structure function in order to solve specific tasks and report research results.       Students independently design the structure's elements.       [SU1] Assessment of task         Subject contents       Adoption of design assumptions, Preparation of preliminary drawings (concept) of the structure.Creation of numerical model of the structure.Preparation of construction drawings of structures.Construction of the structure.		and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate		teamwork in the form of a			communication skills, including		
knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field of civil engineering.       calculations for the designed structure.       contained in presentation         [K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of covil engineering.       Students independently design the static schematic of the structure and determine the dimensions of the structure and determine the dimensions of the structure's elements.       [SU1] Assessment of task fulfilment         Subject contents       Adoption of design assumptions, Preparation of preliminary drawings (concept) of the structure. Creation of numerical model of the structure. Preparation of construction drawings of structures. Construction of the structure.		group, as well as function in teams, which may consist of representatives of various		structures according to design			[SK2] Assessment of progress of work		
(obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.       static schematic of the structure and determine the dimensions of the structure's elements.       fulfilment         Subject contents       Adoption of design assumptions,Preparation of preliminary drawings (concept) of the structure.Creation of numerical model of the structure.Preparation of construction drawings of structures.Construction of the structure.		knowledge and understanding of research methods (obtaining information, simulations, experimental methods) in the field		calculations for the designed			[SW2] Assessment of knowledge contained in presentation		
Adoption of design assumptions, Preparation of preliminary drawings (concept) of the structure. Creation of numerical model of the structure. Preparation of construction drawings of structures. Construction of the		(obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research		static schematic of the structure and determine the dimensions of					
	Subject contents	numerical model of th	e structure.Pre	paration of cor	struction draw				

Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Project (model)	60.0%	50.0%		
	Presentation	60.0%	20.0%		
	Report	60.0%	30.0%		
Recommended reading	Basic literature	<ol> <li>Budownictwo ogólne, Arkady, Tom 1, 3, 4</li> <li>Mechanika ogólna</li> </ol>			
	Supplementary literature 1. Nowy poradnik majstra budowlanego, Arkady				
	eResources addresses Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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