

Subject card

Subject name and code	Construction Project II, PG_00055847							
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			Polish	Polish	
Semester of study	5		ECTS credits		3.0			
Learning profile	general academic profile		Assessmer	Assessment form		assessment		
Conducting unit	Department Of Technical Fundamentals Of Architectural Design -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor		dr inż. Karol G					
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	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 didactic classes included in study plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		5.0		25.0		75
Subject objectives	The student recognizes the basic problems in the field of solving problems related to building structures on the basis of EC 1 to 6.Presents knowledge on the adoption of material solutions, determination of the location of structural axes, distribution of the column / wall grid, assumption of initial dimensions of the foundations, calculation of the initial dimensions of the floor slab columns, ribs, binder according to the adopted material, determination of the ceiling support directions (unidirectional / bidirectional)							
Learning outcomes	ng outcomes Course outcome		Subject outcome		Method of verification			
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		is able to use analytical methods to formulate and solve design tasks			[SU4] Assessment of ability to use methods and tools		
	construction problem and engineering issu building design; princ solutions, constructio building materials us engineering tasks in	onstruction problems, building and engineering issues related to		has knowledge of technical issues related to the design and implementation of architectural structures and basic knowledge of related engineering industries			[SW3] Assessment of knowledge contained in written work and projects	

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Preparation of a situctural design Technical and construction descriptionDrawing K-01: Foundation plan, accie 15:0 or 1: 100Drawing K-02: Carage is basement plan scale 15:0 or 1: 100Drawing K-03: Ground flow flow scale 15:0 or 1: 100Drawing K-03: Ground flow flow flow flow flow flow flow flow							
scale 15 00 or 1: 100Drawing K-02: Garage / basement plan scale 15 00 or 1: 100Drawing K-03: Rodi plan, scale 15:00 or 1: 100Drawing K-04: Planting cross-section scale 15:00 or 1: 100Drawing K-04: Planting cross-section scale 15:00 or 1: 100Drawing K-04: Building Building K-04: Building K-04: Building K-04: Building Building Building K-04: Building Building K-04: Building Building Building Building K-04: Building Building Building K-04: Building Buildin	Subject contents						
Prerequisites and co-requisites Subject passing criteria Subject passing criteria Passing threshold Percentage of the final grade 60.0% 100.0% Recommended reading Basic literature Eurocode 0: Design of structuresEurocode 1: Actions on structuresEurocode 3: Design of reinforced concrete structuresEurocode 3: Design of reinforced concrete structuresEurocode 3: Design of steel structuresEurocode 5: Design of wooden structuresEurocode 5: Design of steel structuresEurocode 5: Design of wooden structuresEurocode 5: Design of steel structuresEurocode 5: Design of wooden structuresEurocode 5: Design of steel structuresEurocode 5: Design of steel structuresEurocode 5: Design of wooden structures 6: Design of steel structuresEurocode 5: Design of wooden structures 6: Design of wooden structures 8: Design of steel structuresEurocode 5: Design of wooden structures 8: Design of steel structures 8:		scale 1:50 or 1: 100Drawing K-02: Garage / basement plan scale 1:50 or 1: 100Drawing K-03: Ground floor plan, scale 1:50 or 1: 100Drawing K-04: Typical floor plan, scale 1:50 or 1: 100Drawing K-05: Roof plan, scale 1:50 or 1: 100Drawing K-06: Building cross-section scale 1:50 or 1: 100Based on knowledge of:accepting material solutions - determining the position of structural axes - arranging the grid of columns / walls - adopting the initial dimensions of strip footings - adopting the initial dimensions of walls - marking ceiling rims - marking door and window lintels - calculating the initial dimensions of columns according to the adopted material - calculating the initial dimensions of the ceiling slab according to the adopted material - calculating the preliminary dimensions of the ceiling rib according to the adopted material - calculating the initial dimensions of the ceiling joist according to the adopted material - determining the directions of the ceiling support (one-way / two-way) + rules of technical drawing (line thickness, font size, etc.) Design of building elements- Issues in the field of construction related to the implementation of a construction design in the technical part (projections and cross-sections), and solution of a construction detail of a selected part of the building containing 3-4 nodes depending on the individual situation (e.g. glass facade, facade, roof, roof glazing, skylights) , stairs, etc.) in the scale of the detail. The basis of the study is					
Recommended reading Basic literature Eurocode 0: Design of structuresEurocode 1: Actions on structuresEurocode 2: Design of reinforced concrete structuresEurocode 3: Design of steel structuresPN-B-01040 Building construction of traving. General rulesPlot J. Petraszek P., Schabowicz K.: Calculation of traditionally erected buildings, Dolinośląskie Wydawnictow Edukacyjne, Wrocław 2006. Starosolski W., Reinforced concrete structures, volumes I, II and III, Polish Scientific Publishers PWN, Warsaw 2007. Lapko A.: Design preinforced concrete structures, wardy, Warsaw 2001. Lapko A., Jensen B. Ch.: Design basics and algorithms for calculating reinforced concrete structures, Arkady, Warsaw 2006. Knaff M., Calculation of reinforced concrete structures, according to Eurocode 2. PWN, Warsaw 2012. PWN, Warsaw 2012. Cancerded concrete structures according to Eurocode 2. PWN, Warsaw 2012. Cancerded concrete structures according to Eurocode 2. PWN, Warsaw 2012. Cancerded concrete structures according to Eurocode 2. PWN, Warsaw 2012. Cancerded concrete structures according to Eurocode 2. PWN, Warsaw 2012. 2012. Exencylwowski W., General construction, Warsaw Arkady, 2012. Exencylwowski W., General construction, Warsaw Arkady, 2012. Cancerded construction 1. T is building materials and process. Warsaw Arkady, 2014. Pwn 2012. 2009. The technical construction 1. T is building elements. Fundamentals of Design, Warsaw 2012. 2009. The technical construction 1. T is building elements. Fundamentals of Design, Warsaw Arkady, 2014. Construction of the Minister of Intrastructure of April 12. 2002 on technical conditions to be met by buildings and their location, i.e. Journal of Laws No. 2019 item 1056Regulation of the Minister of Transforture of April 12. 2002 on technical conditions to be met by buildings and their location, i.e. Journal of Laws No. 2019 item 1056Regulation of the Minister of Transforture of April 12. 2002 on technical conditions to be met by buildings and their location, i.e. Journal of Laws No. 2019 item 1056Regulat		, , , , , , , , , , , , , , , , , , , ,					
Recommended reading Basic literature Eurocode 0: Design of structuresEurocode 1: Actions on structuresEurocode 2: Design of reinforced concrete structuresEurocode 3: Design of steel structuresEurocode 5: Design of wooden structuresEurocode 6: Design of reinforced concrete structuresEurocode 5: Design of steel structuresEurocode 5: Design of wooden structuresEurocode 6: Design of macony structuresPN-Biotecode 7: Design of macony structures Action of traditionally erected buildings, Dolncislagielis Wydamvictor Edward, Pw. Wallender 2006. Starsoolski W., Reinforced concrete structures, Arkady, Warsaw 2001. Lapko A., Jensen B. Ch.: Design basics and algorithms for calculating reinforced concrete structures, Arkady, Warsaw 2001. And Calculation of reinforced concrete structures, Arkady, Warsaw 2001. And Calculation of reinforced concrete structures. Arkady, Warsaw 2001. And Starsool Structures Phylodecode 2: PWN, Warsaw 2012. 2015; Panas J. ed., New construction for early structures according to Eurocode 2: PWN, Warsaw 2012. 2015; Panas J. ed., New construction for architector. Warsaw 2009. 2016 General construction. T. 3 Building structures for architectors of buildings, Warsaw Arkady, 2014Ordinants. Fundamentals of Design. Warsaw 2015. Michailak H. Multi-station garages. Design and implementation, Arkady, Warsaw 2015. Michailak H. Multi-station garages. Design and implementation Arkady, Warsaw 2015. Warsaw	Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
Eurocode 0: Design of structuresEurocode 1: Actions on structuresEurocode 2: Design of reinforced concrete structuresEurocode 3: Design of setucturesEurocode 5: Design of wooden structuresEurocode 6: Design of memory structuresPNN-B-01040 Building construction drawing. General rulesHola J., Pietraszek P., Schabowicz K.: Calculation of traditionally erected buildings, Dolnoslagiski Wydawnictwo Edukacyine, Wrocław 2006. Starosolski W., Reinforced concrete structures, volumes I, II and III, Polish Scientific Publishers PNN, Paswa 2007. Łapko A.: Designing reinforced concrete structures, Arkady, Warsaw 2001. Łapko A., Jensen B. Ch. 1: Design basics and pointims for calculating reinforced concrete structures, Arkady, Warsaw 2005. Knauff M., Calculation of reinforced concrete structures according to Eurocode 2, PWN, Warsaw 2012. 2015; Panas J. ed., New construction foreman's guide, Arkady 2012. Zenczykowski W., General construction, Warsaw, Arkady, 2012. Zenczykowski W., General construction, Warsaw Arkady, 2007. General construction, T. 1 Building materials and products, Warsaw Arkady, 2007. Warsaw Arkady, 2017. Septiment of Design, Warsaw Arkady, 2017. Septiment on the Minister of Intrastructure of April 12, 2002 on technical conditions to be met by buildings and their location, i.e. Journal of Laws No. 2019 Item 1065Regulation of the Minister of Intrastructure of April 12, 2002 on technical conditions to be met by buildings and their location, i.e. Journal of Laws No. 2019 Item 1065Regulation of the Minister of Trustructures in general construction, Arkady, Warsaw 2013. 3. Michalak H. Multi-station garages. Design and implementation, Arkady, Warsaw 2013. 3. Michalak H. Multi-station garages. Design and implementation, Arkady, Warsaw 2013. 3. Michalak H. Multi-station garages. Design and implementation, Arkady, Warsaw 2013. 3. Michalak H. Multi-station garages. Design and implementation. Arkady, Warsaw 2010. 3. Michalak H. Multi-station garages. Design and implementation. Arkady 1984Markiewicz Przemysław, General		- salpest parenty entertain					
1. Borusiewicz W. Building structures for architects, Arkady, Warsaw 1973.2. Mielczarek Z. Modern structures in general construction, Arkady, Warsaw 2001.3. Michalak H. Multi-station garages. Design and implementation, Arkady, Warsaw 2009. P. Hyks, M. Gaborik, O. Vrana, Stairs, Arkady 1984Markiewicz Przemysław, General construction for architects, ArchiPlus 2011 (4th ed.)Markiewicz Przemysław, Design details for architects, ArchiPlus2010 (1st edition)	Recommended reading		Eurocode 0: Design of structuresEurocode 1: Actions on structuresEurocode 2: Design of reinforced concrete structuresEurocode 3: Design of steel structuresEurocode 5: Design of wooden structuresEurocode 6: Design of masonry structuresPN-B-01040 Building construction drawing. General rulesHoła J., Pietraszek P., Schabowicz K.: Calculation of traditionally erected buildings, Dolnośląskie Wydawnictwo Edukacyjne, Wrocław 2006. Starosolski W., Reinforced concrete structures, volumes I, II and III, Polish Scientific Publishers PWN, Warsaw 2007.Łapko A.: Designing reinforced concrete structures, Arkady, Warsaw 2001.Łapko A., Jensen B. Ch.: Design basics and algorithms for calculating reinforced concrete structures, Arkady, Warsaw 2005.Knauff M., Calculation of reinforced concrete structures according to Eurocode 2, PWN, Warsaw 2012, 2015; Panas J. ed., New construction foreman's guide, Arkady 2012.Żenczykowski W., General construction, Warsaw, Arkady, 1986.Różycki S., General construction 3-4, Gdańsk 1966General construction, T 1 Building materials and products, Warsaw Arkady, 2007General construction, T 3 Building elements. Fundamentals of Design, Warsaw Arkady, 2008General construction, T 4 Construction of buildings, Warsaw Arkady, 2014Ordinance of the Minister of Infrastructure of April 12, 2002 on technical conditions to be met by buildings and their location, i.e. Journal of Laws No. 2019 item 1065Regulation of the Minister of Transport, Construction and Maritime Economy on the detailed scope and form of a construction project,				
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Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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