



Subject card

Subject name and code	Shaping and transformation of urban structures, PG_00065661						
Field of study	Spatial Development						
Date of commencement of studies	February 2026		Academic year of realisation of subject		2026/2027		
Education level	second-cycle studies		Subject group		Optional subject group Specialty 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	1		Language of instruction		English		
Semester of study	2		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. arch. Gabriela Rembarz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	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		6.0		24.0	75
Subject objectives	The aim of the course is to introduce understanding of using a masterplan format as a planning and coordination tool for the implementation of large-scale urban assumptions.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_W01] has in-depth and expanded knowledge of spatial development, urban planning and spatial planning, including activities used in the process of revitalization of degraded areas and ecological design	1. student has knowledge of the key large-scale development projects implemented in port cities in the last four decades, 2. student knows and applies in planning the principles of masterplanning, 3. student knows and applies in the own proposed design solutions the main principles of the revitalization process, 4. students understands the limitations and potentials of the waterfronts' areas for the implementation of the modern large-scale urban structures,	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
	[K7_U06] is able to formulate a design specification for a complex planning task, including legal and other non-technical aspects, including such things as social impact and economic efficiency	1. student can develop the structure of a project task defined as a descriptive task, 2. student is able to set variant directions for the development of a project task, 3. student uses the scenario method to develop working models for the structure of a project task, 4. student is able to use examples of good practice in formulating the structure of a project task and potential variants of working concepts,	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information
	[K7_W04] has in-depth knowledge of issues and technical systems related to the planning, design and implementation of infrastructure projects and urban planning, as well as the life cycle of facilities and systems related to the operation of settlement units	1. the student recognizes and constructively interprets the conditions resulting from the technical infrastructure characteristics, 2. the student has the ability to formulate spatial assumptions concept for the development of technical infrastructure, 3. the student has the ability to pre-evaluate the development in terms of its adaptation possibilities for new city programs, 4. the student understands and applies the principles of building spatial and social continuity in the implementation of large-scale projects in post-industrial / post-industrial areas,	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation

Subject contents	Course content – lecture 1.masterplan as a planning tool, 2. methods of using examples of the best practice, 3. leading masterplan examples for planning large-scale waterfront urban developments, 4. structure of design studio organisation in the process of planning draft masterplan concept, 5. options, variants, scenarios - tools of the process in planning a draft masterplan concept, 6. methods of presenting and evaluating the results of intermediate stages in planning a draft masterplan concept,		
	Course content – exercises 1.masterplan as a planning tool, 2. methods of using examples of the best practice, 3. leading masterplan examples for planning large-scale waterfront urban developments, 4. structure of design studio organisation in the process of planning draft masterplan concept, 5. options, variants, scenarios - tools of the process in planning a draft masterplan concept, 6. methods of presenting and evaluating the results of intermediate stages in planning a draft masterplan concept,		
Prerequisites and co-requisites	PG_00053608, PG_M0001485, PG_0005360, PG_M000149, PG_00053620, PG_00053619, PG_M000148, PG_00053606 PG_0005360		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Assessment of analytical tasks	70.0%	20.0%
	Assessment of design tasks	80.0%	60.0%
	Assessment of activity during the design studio and results of the own studies&research	90.0%	20.0%
Recommended reading	Basic literature	Eric Firley, Katharina Groen, 2013, <i>The Urban Masterplanning Handbook</i>, Wiley & Sons Ltd Ombretta Romice, Sergio Porta, Alessandra Felociotti, 2020, <i>Masterplanning for Change Designing the Resilient City</i>, Rouladage	
	Supplementary literature	Rembarz G. (red), 2018, <i>Living in the Harbour</i>, Studia KPZK PAN, vol. 188, https://journals.pan.pl/skpzk/129695 Rembarz G. (red), 2018, <i>Beauty and Energy. A Contemporary Model for Development of New Residential Areas/Districts in Europe</i>, STUDIA KPZK PAN vol. 187, https://journals.pan.pl/dlibra/publication/126397/edition/110303/content	
	eResources addresses		

Example issues/ example questions/ tasks being completed	1. What is a masterplan? 2. When do we use the master plan in the planning process? 3. Main assumptions in the masterplan of Hafencity in Hamburg and Ueberseestadt in Bremen, 4. IBA format on the example of the development of the Wilhelmsburg-Harburg area in Hamburg, 5. The main types of water fronts arising in the transformation processes of post-port areas,
Practical activities within the subject	Not applicable

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