



Subject card

Subject name and code	Elective subject, PG_00054613						
Field of study	Spatial Development						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2021/2022		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Natalia Sokół					
	Teachers	dr inż. Natalia Sokół					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	PDW- Światło (ćwiczenia) 2 sem GP - Moodle ID: 23955 https://enauzanie.pg.edu.pl/moodle/course/view.php?id=23955						
	Additional information: Online teaching via Elearning platform at 4:15 p.m till 6 pm on Tuesday						
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	15	0.0	0.0	15		
Subject objectives	To familiarize students with the role and importance of daylight in shaping spaces, buildings and architectural interiors as well as the basics of creating daylight simulations in the context of design decisions made and geographical, climatic and legal conditions.						
Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_W04] has basic knowledge in the field of pro-ecological design and knows the principles of sustainable development of cities and regions; has knowledge of the natural foundations of spatial management and the impact of natural conditions on the processes of economic development on a local, regional and national scale	Students are able to comprehend sunlight analysis results.	[SW2] Assessment of knowledge contained in presentation				
	[K6_U05] correctly interprets natural phenomena, and when formulating and solving engineering tasks related to spatial management, notices their systemic and non-technical aspects related to the natural environment	Students can perform simple sunlight analysis of the chosen urban area.	[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task				
Subject contents	Proposed task:- preparation of an analysis of daylight in the selected building or assembly of buildings concerning:1. sunshine time 2. shadow analysis and 3. view ratings from the window						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation of analysis conclusions	60.0%	30.0%
	sunlight analysis	60.0%	30.0%
	presentation of the analysis and symulations results and design conclusions	60.0%	40.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Chapters 4 and 5 form <i>Changing perspectives on daylight: Science, technology, and culture</i>. Science/AAAS, Washington, DC, 2017. 2. <i>Daylight: What makes the difference?</i> Authors: M Knoop, O Stefani, B Bueno, et al, w Lighting Research & Technology, 2020 3. Neufert E., <i>Podręcznik projektowania architektoniczno-budowlanego</i>, Arkady, W-wa 1991. 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Reinhart, Christoph. <i>Daylighting Handbook I</i>. 2014. ISBN: 9780692203637. 2. Lam, W. <i>Sunlighting as Formgiver for Architecture</i>. Van Nostrand Reinhold Company, 1986. ISBN: 9780442259419. 	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Prepare a simulation in any program for:1. sunshine time and 2. shadow path in a context of daylight standards.		
Work placement	Not applicable		