



Subject card

Subject name and code	Elective subject, PG_00056697						
Field of study	Spatial Development						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	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	15.0	0.0	0.0	0.0	0.0	15
	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	15		0.0		0.0	15
Subject objectives	Theoretical familiarization of students with the issues of electric lighting in architecture and urban planning. It consists of lectures aimed at acquainting students with the basics of creating lighting masterplans in architecture and urban planning.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W01] has knowledge related to theoretical and practical issues in the field of spatial management, the basics of planning and urban design and principles of local, regional and national development, and has basic knowledge about contemporary trends of development and revitalization of settlement structures and the life cycle of facilities and systems related to the functioning of settlement units		The student has in-depth knowledge of the history and architectural theories related to lighting and related arts, humanities, and illumination technologies, enabling a critical assessment of phenomena occurring in architecture.		[SW1] Assessment of factual knowledge		
	[K6_U06] properly analyses the causes and the course of the process, and the social, cultural, political, legal and economic problems affecting changes in space, including those resulting from historical circumstances; makes design decisions based on social conditions, respecting the needs of users, the cultural environment		properly analyses the causes and the course of the process; makes design decisions based on social conditions, respecting the needs of users, the cultural environment		[SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	<p>Thematic blocks</p> <p>HOW CAN I UNDERSTAND LIGHT IN ARCHITECTURE?</p> <p>During the classes, students will learn the basic terms related to electric lighting. Selected definitions and photometric values as well as methods of describing light in architecture will be presented.</p> <p>HOW TO DESIGN ELECTRIC LIGHTING?</p> <p>Then, modern techniques and principles of designing electric lighting of interiors and illumination of buildings and green areas will be introduced. During the analysis of selected lighting projects, students will learn about various methods of illuminating planes and surfaces with different textures and translucency. They learn about the stages of lighting projects and their correlation with architectural designs. The classes allow you to learn about the possibilities of shaping space with light, with particular emphasis on the reception of the external form, its illumination or the creation of "light architecture".</p> <p>LAMPS</p> <p>During the workshop part of the course, the latest lighting equipment, light sources and principles of shaping photometric solids will be presented.</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 873 794 902">Subject passing criteria</th> <th data-bbox="794 873 1141 902">Passing threshold</th> <th data-bbox="1141 873 1492 902">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 909 794 938">homework</td> <td data-bbox="794 909 1141 938">65.0%</td> <td data-bbox="1141 909 1492 938">65.0%</td> </tr> <tr> <td data-bbox="453 945 794 974">activity during classes</td> <td data-bbox="794 945 1141 974">65.0%</td> <td data-bbox="1141 945 1492 974">35.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	homework	65.0%	65.0%	activity during classes	65.0%	35.0%
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activity during classes	65.0%	35.0%										
Recommended reading	Basic literature	<ol style="list-style-type: none"> Innes, M. (2012) <i>Lighting for Interior Design</i>, Laurence King Publishing The Society of Light and Lighting (SLL) <i>Lighting Handbook</i> P. Boyce, P. Raynham, (2009), Publisher: CIBSE Żagan W., (2003), <i>Iluminacja obiektów</i>, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 										
	Supplementary literature	<ol style="list-style-type: none"> Bartnicka M. (2003), <i>Iluminacja artystyczna w architekturze i urbanistyce. Czynniki i wytyczne kształtowania</i>, praca doktorska pod kierunkiem dr hab. inż. arch. Białkiewicz J. Z., prof. PK, Wydział Architektury Politechniki Krakowskiej. Brandt, U., Geissmar-Brandt Ch. (2001), <i>Lichtbuch Die Praxis der Lichtplanung</i>, Birkhauser Boyce, P. (2003) <i>Human Factors in Lighting</i>, Taylor and Francis Society of Light and Lighting <i>SLL Code for Lighting</i> (2012), Boyce, P., Raynham, P. Publisher: CIBSE Steffy, G. <i>Architectural Lighting Design</i>, (2008), John Wiley & Sons Inc 										
	eResources addresses	<p>Podstawowe</p> <p>https://enauczenie.pg.edu.pl/moodle/course/view.php?id=26406 - GP III sem: Oświetlenie w projektowaniu przestrzennym (2022/23) elective project</p>										
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> Grażyna Czora mówi o akupunkturze oświetleniowej. Jak można zrozumieć to stwierdzenie w kontekście tworzenie masterplanów oświetleniowych? 											
Work placement	Not applicable											