



Subject card

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| Subject name and code | Elective subject, PG_00054613 | | | | | | |
| Field of study | Spatial Development | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | 2020/2021 | | |
| 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 | | | | | | |
| | Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=14613 Adresy na platformie eNauczanie: | | | | | | |
| | 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_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 | | |
| | [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 | | |
| 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 | | | | | | |

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| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | presentation of the analysis and symulations results and design conclusions | 60.0% | 40.0% |
| | presentation of analysis conclusions | 60.0% | 30.0% |
| | sunlight analysis | 60.0% | 30.0% |
| Recommended reading | Basic literature | <div>1. Chapters 4 and 5 form <i>Changing perspectives on daylight: Science, technology, and culture</i>. Science/AAAS, Washington, DC, 2017.</div> <div>2. <i>Daylight: What makes the difference?</i> Authors: M Knoop, O Stefani, B Bueno, et al, w Lighting Research & Technology, 2020</div> <div>3. Neufert E., <i>Podręcznik projektowania architektoniczno-budowlanego</i>, Arkady, W-wa 1991.</div> | |
| | Supplementary literature | <div>1. Reinhart, Christoph. <i>Daylighting Handbook I</i>. 2014. ISBN: 9780692203637.</div> <div>2. Lam, W. <i>Sunlighting as Formgiver for Architecture</i>. Van Rostrand Reinhold Company, 1986. ISBN: 9780442259419.</div> | |
| | 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 | | |