



Subject card

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| Subject name and code | , PG_00065124 | | | | | | |
| Field of study | Spatial Development | | | | | | |
| Date of commencement of studies | October 2024 | | Academic year of realisation of subject | | | 2025/2026 | |
| 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 | | | 2.0 | |
| Learning profile | general academic profile | | Assessment form | | | assessment | |
| Conducting unit | Department Of Urban Design And Regional Planning -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | prof. dr hab. inż. arch. Piotr Lorens | | | | |
| | Teachers | | prof. dr hab. inż. arch. Piotr Lorens | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 0.0 | 30.0 | 0.0 | 0.0 | 0.0 | 30 |
| | 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 | 30 | | 0.0 | | 0.0 | 30 |
| Subject objectives | Lighting masterplans: inventory and analysis of planning and lighting; verbal and graphic conclusions; lighting masterplan concept. Transit-oriented communities (TOCs) - design issues: "transit oriented development" (TOD), Vancouverism, modern European quarter. | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | |
| | [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 analyzes the causes and course of processes and phenomena; makes design decisions based on social conditions with respect for users' needs and the cultural environment | | | [SU1] Assessment of task fulfilment | |
| | [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 architectural history and theory related to lighting and related arts, humanities and illumination technology, enabling a critical evaluation of phenomena occurring in architecture. | | | [SW1] Assessment of factual knowledge | |

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| Subject contents | ELEMENTS FOR MASTERPLAN: 1. TITLE AND SCOPE OF THE PROJECT 2. PROJECT OBJECTIVES 3. LOCATION ANALYSIS 3. GENERAL LOCATION MAP TECHNICAL DOCUMENTATION, URBAN AND TECHNICAL CONDITIONS - LOCAL DEVELOPMENT CONDITIONS HISTORY AND SOCIAL CONDITIONS DRAWINGS, LOCATION SKETCHES, DOMINANTS, NODE POINTS 4. LIGHTING ANALYSIS PLACES, LANDSCAPE DOMINANCES, ARCHITECTURE ELEMENTS TO BE UNDERSTANDING PHOTO DOCUMENTATION: DAY, NIGHT ANALYSIS OF COMMUNICATION ROADS, PLACES IMPORTANT FOR USERS OF A GIVEN SPACE 5. ANALYSIS OF AN EXISTING LIGHTING STATION PLAN OF THE EXISTING LIGHTING SITUATION POSITIVE AND NEGATIVE FEATURES OF EXISTING SOLUTIONS, PROPOSALS FOR CHANGES PHOTOGRAPHIC DOCUMENTATION OF EXISTING LUMINAIRES 6. SUMMARY OF THE ANALYSIS, DESIGN CONCLUSIONS 7: IDEA CONCEPT LIGHTING LAYERS COLOR OF LIGHT LEVELS OF INTENSITY AND LUMINANCE (according to the normative guidelines) MASTERPLAN CONCEPT EVENT SCENARIOS COST CALCULATIONS (for volunteers) RECOMMENDATIONS FOR THE MAINTENANCE PLAN SOURCE MATERIALS | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | exercises | 50.0% | 5.0% |
| | homework | 65.0% | 5.0% |
| | group task- masteplan concept | 65.0% | 70.0% |
| | presentation | 65.0% | 20.0% |
| Recommended reading | Basic literature | 1. Innes, M. (2012) <i>Lighting for Interior Design</i> , Laurence King Publishing 2. The Society of Light and Lighting (SLL) <i>Lighting Handbook</i> P. Boyce, P. Raynham, (2009), Publisher: CIBSE 3. Żagan W., (2003), <i>Iluminacja obiektów</i> , Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa | |
| | Supplementary literature | 1. 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., , Wydział Architektury Politechniki Krakowskiej. 2. Brandi, U., Geissmar-Brandi Ch. (2001), <i>Lichtbuch Die Praxis der Lichtplanung</i> , Birhauser 3. Boyce, P. (2003) <i>Human Factors in Lighting</i> , Taylor and Francis 4. Society of Light and Lighting <i>SLL Code for Lighting</i> (2012), Boyce, P., Raynham, P. Publisher: CIBSE 5. Steffy, G. <i>Architectural Lighting Design</i> , (2008), John Wiley & Sons Inc | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| Example issues/ example questions/ tasks being completed | Please present the concepts of the lighting masterplan for the analysed area in graphic form - a 50x70 poster or its multi-plication. | | |
| Work placement | Not applicable | | |

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