



Subject card

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|---|---|--|--|-------------------------------------|--|------------|-----|
| Subject name and code | Theory of architectural designe III, PG_00055704 | | | | | | |
| Field of study | Architecture | | | | | | |
| Date of commencement of studies | October 2021 | | Academic year of realisation of subject | | 2022/2023 | | |
| Education level | first-cycle studies | | Subject group | | Obligatory subject group in the field of study | | |
| 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 Housing And Architecture Of Public Buildings -> Faculty Of Architecture -> Wydział Politechniki Gdańskiej | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | mgr inż. arch. Stanisław Dopierała | | | | |
| | Teachers | | mgr inż. arch. Stanisław Dopierała | | | | |
| 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 | | 2.0 | | 8.0 | 25 |
| Subject objectives | the aim of the course is to acquire basic knowledge of the residential environment by the student | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_W03] knows and understands history and theory of architecture as well as art, technology and humanities to the extent necessary for the proper performance of architectural designs; issues related to architecture and urban planning useful for the design of architectural objects and urban complexes in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of engineering activities, integrating knowledge acquired during studies; | | has knowledge of the basic human needs related to the living space and its immediate surroundings, including ergonomics, psychology of architecture, technical and technological solutions, has knowledge of the relationships between people and buildings, and between buildings and their surroundings, as well as elementary knowledge of the principles of sustainable development and their applications in design | | [SW1] Assessment of factual knowledge | | |
| | [K6_W02] knows and understands the rules of gathering information and their interpretation as a part of project concept preparation; issues related to architecture and urban planning in the field of simple design problems solving | | knows and understands the rules of gathering information and their interpretation as a part of project concept preparation. | | [SW1] Assessment of factual knowledge | | |

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| Subject contents | LECTURES: Dwelling and Home. Place and dwelling; Place and context. Genius loci history, structure, interpretation and notion of place; surrounding as natural and socio-cultural context of place; Environment, structure and shell. Designers and users environmental awareness. Building structure heat accumulation, thermal zoning, winter garden; building shell external barriers; Four elements and cyclical nature. Energy daylight and artificial lighting, heat; Matter criteria for selection of building materials, recycling, biologically active areas; water - water and sewage systems, rain water ; air air exchange, emissions, heat recuperation; Environment-friendly technology. Characteristics of ecological Technologies: low-tech, appropriate technology, BAT, high-tech. Selection criteria of ecological technology; Single-family housing units. Detached house, semi-detached, row-housing, atrium housing; site selection and layout, fencing; functional connections between rooms; House zones. Day-time zone, entrance zone, kitchen (equipment, furniture, ergonomics), dining room, family room, atelier (workshop), living; night zone: bedrooms, wardrobes, bathrooms; Installations water and sewage, heating, electric system; House structure. Foundations, cellar, external walls, roofs roof structures, roof covering; Materials: quantity and cost; Interiors. Fittings, materials, colour schemes, finishing materials; Documentation/specification. Architectural project, building project; Presentation of chosen examples of project documentation; Cooperation. Relations between investor, architect and building contractor. Clients supply, demand realisation; Characteristics of a well designed single family house. | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | exam | 60.0% | 100.0% |
| Recommended reading | Basic literature | Neufert E., Podręcznik projektowania architektoniczno-budowlanego. Arkady, Warszawa, 1995. Pearson D., Przyjazny dom. Wydawnictwo Murator Warszawa, 1998. Wines J., Green Architecture. Taschen, 2000. Redliczka A., Atlas miar człowieka. Dane do projektowania i oceny ergonomicznej. Mass J., Referowska M., Mieszkanie. Arkady, Warszawa, 1965. | |
| | Supplementary literature | Twarowski M., Słońce w architekturze. Warszawa, Arkady, Warszwa, 1970. Hinz Sigrid, Wnętrza mieszkalne i meble. Arkady, Warszawa, 1980. Wright D., Natural Solar Architecture. The Passive Solar Primer. VNR, 1984. | |
| | eResources addresses | Adresy na platformie eNauczanie: | |
| | Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | | |

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