Attachment no. 5 to ZW 16/2020

Attachment no. **6** to studies program

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| **FACULTY OF ARCHITECTURE**  **COURSE SYLLABUS**  Course title in Polish: **Projektowanie konserwatorskie**  Course title in English: **Conservation Design**  Specialization (if applicable): **Architecture**  Profile (if applicable): **Architecture and Urban Planning**  Level and form of studies: **2nd level, full-time**  Semester: **1**  Course type: **optional**  Course code: **AUA117697P**  Group of courses: **NO** |

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|  | **Lecture** | **Tutorial** | **Laboratory** | **Project** | **Seminar** |
| Number of hours of organized classes in University (ZZU) |  |  |  | **60** |  |
| Number of hours of total student workload (CNPS) |  |  |  | **100** |  |
| Form of crediting |  |  |  | **Crediting with grade** |  |
| For group of courses mark (X) final course |  |  |  |  |  |
| Number of ECTS points |  |  |  | **4** |  |
| including number of ECTS points for practical (P) classes |  |  |  | **2** |  |
| including number of ECTS points for direct teacher-student contact classes or other people conducting classes (BU) |  |  |  | **3** |  |

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| **PREREQUISITES RELATED TO KNOWLEDGE, COMPETENCES AND SOCIAL SKILLS** |
| **No prerequisites.** |

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| **COURSE OBJECTIVES** |
| **C1** ability to conduct research, analysis and evaluation prior to the conservation project.  **C2** learning about the cultural conditions of the city in the process of urban and architectural design, while respecting the historical context.  **C3** to identify the intangible and tangible value of historical buildings, as well as their complexes, and the possibility of adapting them to contemporary requirements and needs.  **C4** to incept in the student the understanding that each monument is different and requires an individual approach when assessing its value and defining the functional programme.  **C5** ability to plan an urban plot located within a historical development quarter, square or street.  **C6** ability to apply reconstruction in conservation design methods, adaptation, modernisation and upgrading, combined with the ability to adapt buildings to the contemporary regulations. requirements, standards and norms, while significantly reducing interference with historic values.  **C7** paying attention to the proper relations between contemporary architecture and the historical context.  **C8** ability to use knowledge of historical styles in the rebuilding of a monument. |

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| **COURSE LEARNING OUTCOMES** |
| **Relating to knowledge:**  1.1.1) The graduate knows and understands structural, constructional and engineering problems associated with designing buildings.  1.1.2) The graduate knows and understands detailed issues in the field of architecture and urban planning related to solving complex design problems.  1.1.3) The graduate knows and understands advanced issues related to architecture and urban planning which are useful in designing structures and urban complexes in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of engineering activities, integrating the knowledge acquired during university studies.  1.1.5) The graduate knows and understands relations between man and architecture and between architecture and the surrounding environment, and the necessity to adapt architecture to human needs and scale.  1.1.6) The graduate knows and understands regulations and procedures that are necessary to implement building projects and integrate buildings with the overall urban planning project.  1.1.8) The graduate knows and understands history and theory of architecture, art, technology and humanities to the extent that is necessary to create proper architectural designs.  1.1.9) The graduate knows and understands principles, solutions, structures and building materials used in complex engineering tasks related to architectural and urban design.  1.1.10) The graduate knows and understands issues related to architecture and urban planning in the context of the interdisciplinary nature of architectural and urban design as well as the need to cooperate with other specialists.  1.1.11) The graduate knows and understands principles of collecting information and interpreting it when developing a design concept.  1.1.12) The graduate knows and understands principles of professional presentation of architectural and urban planning concepts.  1.1.13) The graduate knows and understands the nature of the architectural profession and its role in society.  A.W1. The graduate knows and understands architectural design that varies in the level of complexity, ranging from simple tasks to structures with complex functions in a complex context, in particular simple buildings that satisfy basic needs of users, single-family and multi-family residential buildings, service facilities in residential complexes, public use buildings and complexes of such buildings with a varying scale and level of complexity in an open landscape or in an urban environment.  A.W2. The graduate knows and understands urban design related to completing tasks that vary in scale and level of complexity, in particular building complexes, and local development plans that take local conditions and relations into account.  A.W3. The graduate knows and understands spatial planning and spatial policy tools.  A.W4. The graduate knows and understands provisions of local land-use plans to the extent that is necessary for architectural design.  A.W5. The graduate knows and understands the principles of universal design, including the concept of designing spaces and buildings accessible to all users, in particular to people with disabilities, in architecture, urban planning and spatial planning, and the principles of ergonomics, including ergonomic parameters necessary to provide full functionality of the space and structures under design to all users, in particular for people with disabilities.  A.W6. The graduate knows and understands advanced methods of analysis, tools, techniques and materials necessary to develop design concepts in an interdisciplinary environment, with particular emphasis on cross-industry collaboration.  A.W7. The graduate knows and understands basic methods and techniques for conservation, modernization and reconstruction of historic buildings.  A.W8. The graduate knows and understands the interdisciplinary nature of architectural and urban design and the need to integrate knowledge from other disciplines and to apply it in the designing process in cooperation with specialists in these disciplines.  **Relating to competences:**  1.2.1) The graduate is able to use the experience acquired during studies to critically analyze the conditions and formulate conclusions for designing in a complex, interdisciplinary context.  1.2.2) The graduate is able to use interdisciplinary knowledge and skills acquired during studies to design a sophisticated architectural structure or urban complex that meets the aesthetic and technical requirements, creating and transforming space and giving it new values.  1.2.3) The graduate is able to prepare an advanced graphic, written and oral presentation of his or her original design concepts in the field of architecture and urban planning, using a convention that satisfies the requirements of professional architectural and urban design.  1.2.4) The graduate is able to apply analytical methods in formulating and solving design tasks, present the theoretical background and the justification for the presented solutions in the form of a scientific study.  1.2.5) The graduate is able to organize the work including all phases of design concept development.  A.U1. The graduate is able to design a simple and complex architectural structure, creating and transforming space so as to give it new values – in accordance with the assigned or adopted program which takes into account the requirements and needs of all users, the spatial and cultural context, and the technical and non-technical aspects.  A.U2. The graduate is able to design a simple and compound urban complex.  A.U3. The graduate is able to elaborate planning studies related to spatial development and interpret them to the extent that is necessary for urban and architectural design.  A.U4. The graduate is able to perform a critical analysis of conditions, including the assessment of land use and development. formulate conclusions for design and spatial planning, forecast the processes of transformation of the settlement structure of cities and villages and predict the social effects of these transformations.  A.U5. The graduate is able to evaluate the usefulness of advanced methods and tools for solving simple and complex engineering tasks that are typical in architecture, urban planning and spatial planning, and choose and apply appropriate methods and tools in designing.  A.U6. The graduate is able to prepare an architectural conservation design concept of the transformation of an architectural and urban structure with cultural values, with special regard to the protection of these values and to the appropriate methods and techniques, in accordance with the adopted program, which includes non-technical aspects.  A.U7. The graduate is able to perform a critical analysis and assessment of a project and its implementation with respect to the modernization and reconstruction of architectural and urban structures that have cultural values.  A.U8. The graduate is able to think and act creatively, with an understanding that designing is a complex and multi-faceted endeavor, and express his or her own artistic concepts in architectural and urban design.  A.U9. The graduate is able to integrate information obtained from various sources, interpret and critically analyze it in detail and use it to draw conclusions, as well as formulate and justify opinions and demonstrate their relationship with the designing process on the basis of available scientific achievements in the discipline.  A.U10. The graduate is able to communicate by means of various techniques and tools in a professional and interdisciplinary environment to the extent that is appropriate for architectural and urban design and spatial planning.  A.U11. The graduate is able to work individually and in a team, including collaborating with specialists from other industries, and take on a leadership role in such teams.  A.U12. The graduate is able to estimate the time needed to complete a complex design task.  A.U13. The graduate is able to formulate new ideas and hypotheses, analyze and test novelties related to engineering and research problems in the field of architectural and urban design and spatial planning.  A.U14. The graduate is able to prepare architectural and construction documentation using appropriate scales and in relation to the conceptual architectural design.  A.U15. The graduate is able to implement the principles and guidelines of universal design in architecture, urban planning and spatial planning.  **Relating to social skills:**  1.3.1) The graduate is ready to work in a professional manner, comply with the principles of professional ethics and take responsibility for his or her actions.  1.3.2) The graduate is ready to respect the diversity of views and cultures and demonstrate sensitivity to the social aspects of the profession.  1.3.3) The graduate is ready to take responsibility for humanistic, social, cultural, architectural and urban planning values in the protection of the environment and the cultural heritage.  1.3.4) The graduate is ready to learn all life long, among others, by enrolling in doctoral and post-graduate programs or participating in other forms of education.  1.3.5) The graduate is ready to inspire others to learn and organize the educational process.  A.S1. The graduate is ready to effectively use imagination, intuition, creative attitude and independent thinking to solve complicated design problems.  A.S2. The graduate is ready to speak and make presentations in public.  A.S3. The graduate is ready to take on the role of coordinator of activities in the design processes, manage team work and use interpersonal skills (conflict resolution, negotiation, task delegation), follow teamwork principles and take responsibility for joint tasks and projects.  A.S4. The graduate is ready to take responsibility for shaping the natural environment and cultural landscape, including preservation of the heritage of the region, the country and Europe. |

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| **PROGRAMME CONTENT** | | |
| **Form of classes - project** | | **Number of hours** |
| Proj 1 | Introduction:  Identification of the subject, aim and scope of the project, work schedule and requirements for passing the subject. Assignment and discussion of urban-architectural topics related to the revaluation of building quarters in the old town. Setting up a system of the classroom and outside group work.  A collective or individual trip to the subject site (photographic documentation), preparation of the urban backdrop plan in a scale of 1:500 and the façade lines of the complex in a scale of 1:500. The beginning of historical, archival and iconographic research and studies. Urban analyses. | 4 |
| Proj 2 | The groups' presentation of the collected information related to the current state of the building quarters and their history, changes in architecture and urban planning.  Urbanistic analyses, including the analysis of the current LSDP (Local Spatial Development Plan). Elaboration in groups of Task 1. - a land development project (LDP) and a "mother model" of the development quarter in the scale 1:500.  Discussion and group consultations | 4 |
| Proj 3 | Analysis of data collected during the inventory of the current state (including stratification of the construction stages of buildings on the developed area, technical condition of buildings and equipment, architectural dominants, footpaths, viewing axes, etc.).  Continuation of historical, archival and iconographic research and studies. Preparation of framework guidelines for the conservation programme and functional-spatial concept.  Teamwork. | 4 |
| Proj 4 | Finalisation of works on the LDP in the scale 1:500 and a working model - an urban model in the scale 1:500. Development of characteristic cross-sections through the terrain and buildings, ideological sketches and axonometry. Establishing a functional programme for the area covered by the study.  Teamwork. | 4 |
| Proj 5 | 1st review:  Analysis and evaluation of the conducted research and solutions included in the original LDP and in the urban model in the scale 1:500. Discussion of the adopted solutions - corrections of urban solutions.  Evaluation of the first stage of the project. | 4 |
| Proj 6 | Assigning the topics of design task 2. - individual architectural and conservation projects of selected historic buildings in the selected area. Introduction to the reconstruction, adaptation, modernisation and extension of architectural objects.  Individual consultations. | 4 |
| Proj 7 | Archival research and local vision. Development of conceptual drawings of the reconstruction of the body and the historical facade of the building, integrated into the development quarter.  Scope: freehand sketches and axonometry.  Introduction to aspects of historical detail studies and starting to create one's own sketchbook based on inventories of authentic details preserved in historic buildings.  subject: gable, portal, window, cornice.  Individual consultations. | 4 |
| Proj 8 | Development of conceptual drawings for the reconstruction of the historical facade.  Scope: facade and cross-section in 1:50 scale.  Analysis of comparative materials concerning the material structure of the facade and architectural details.  Individual consultations. | 4 |
| Proj 9 | Discussion of analyses related to the conducted comparative research of historical details of the preserved historic buildings.  Development of detailed drawings of the reconstruction of the historical facade.  Scope: architectural details in 1:10, 1:5 scale.  Individual consultations. | 4 |
| Proj 10 | 2nd review.  Analysis and evaluation of author's conceptual drawings of the reconstruction of the mass and historical façade, its colours and details.  Substantive evaluation of the second stage of the project. | 4 |
| Proj 11 | Assigning students to the themes of the 3rd design task - individual architectural designs of complementary multifunctional buildings, integrated into the development of a selected historical development quarter. | 4 |
| Proj 12 | Presentation of design inspirations ("new in the old context").  Classroom design challenge - the concept of a complementary architectural object, integrated into the development of the previously analysed quarter.  Scope: functional programme, sketches, axonometry, ground floor plan, upper floors and cross-section in 1:200 scale, information about the architectural model in 1:200 scale. Snap presentation. | 4 |
| Proj 13 | Discussion and evaluation of the completed challenge.  Development of conceptual drawings and a working architectural model of the infill building (drawings scale 1:100).  Individual consultations. | 4 |
| Proj 14 | Development of conceptual drawings and a working architectural model of the infilling building (model scale 1:200).  Individual consultations. | 4 |
| Proj 15 | 3rd review.  Analysis and evaluation of author's conceptual drawings of the infill building  Scope: situation and detail sketches, axonometry, ground floor plan, plans of other floors, cross-section and architectural model.  Final graduation | 4 |
|  | **Total hours** | **60** |

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| **TEACHING TOOLS** |
| **N1** - Multimedia presentations.  **N2** - Site and reference research.  **N3** - Analysis and discussion.  **N4** - Group consultations.  **N5** - Individual consultations.  **N6** - Physical and three-dimensional modelling.  **N7** - Competitive exercise.  **N8** - Individual presentations. |

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| **ASSESSMENT OF ACHIEVEMENT OF LEARNING OUTCOMES** | | |
| **Evaluation** (F – forming (during semester), C – concluding (at semester end) | Number of learning outcome | Method of assessing the achievement of learning outcome |
| F1 | 1.1.1)  1.1.2)  1.1.3)  1.1.5)  1.1.6)  1.1.8)  1.1.9)  1.1.10)  1.1.11)  1.1.12)  1.1.13  A.W1.  A.W2.  A.W3.  A.W4.  A.W5.  A.W6.  A.W7.  A.W8.  1.2.1)  1.2.2)  1.2.3)  1.2.4)  1.2.5)  A.U1.  A.U2.  A.U3.  A.U4.  A.U5.  A.U6.  A.U7.  A.U8.  A.U9.  A.U10.  A.U11.  A.U12.  A.U13.  A.U14  A.U15.  1.3.1)  1.3.2)  1.3.3)  1.3.4)  1.3.5)  A.S1.  A.S2.  A.S3.  A.S4. | assessment of the substantive and technical value of the project |
| F2 | evaluation of activity (min. 50% corrections, passing of reviews, permissible number of absences according to the study regulations) |
| **C = 80%F1 + 20%F2** | | |

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| **BASIC AND ADDITIONAL LITERATURE** |
| **basic LITERATURE:**   1. *Adaptacja obiektów zabytkowych do współczesnych funkcji użytkowych*, Szmygin, B. (red.), Warszawa, Lublin 2009. 2. *Atlas Architektury Wrocławia*, Harasimowicz, J. (red.), t. 1 i 2, Wrocław 1997. 3. Burgemeister, L., *Die Kunstdenkmäler der Stadt Breslau*, Breslau 1930. 4. Brzezowski W., *Dom mieszkalny we Wrocławiu w okresie baroku,* Wrocław 2000. 5. Czerner, O., *Rynek Wrocławski*, Wrocław 1976. 6. Czerner, O., *Wrocław na dawnej rycinie*, Wrocław, Warszawa, Kraków, Gdańsk, Łódź 1989. 7. *Dziedzictwo kulturowe fundamentem rozwoju cywilizacji*, Międzynarodowa Konferencja Konserwatorska (Materiały t.1-6), Kraków 2000. 8. *Ikonografia Wrocławia*, t. 1-2, Wrocław 2008. 9. Jagiełło, M., *Sgrafitta na Śląsku1540-1650*, Wrocław 2003. 10. Kadłuczka, A., *Problemy integracji architektury współczesnej z historycznym środowiskiem kulturowym*, Kraków 1982. 11. Kirschke, K., *Fasady wrocławskich obiektów komercyjnych z lat 1890 - 1930. Faktura - kolorystyka - dekoracja*, Wrocław 2005. 12. Kowiarz, R., *Alt Schlesien*, Breslau 1906. 13. *Leksykon architektury Wrocławia*, Eysymontt, R., Ilkosz, J., Tomaszewicz, A., Urbanik, J. (red.), Wrocław 2011. 14. Małachowicz, E., *Konserwacja i rewaloryzacja architektury w środowisku kulturowym,* Wrocław 2007. 15. Małachowicz, E., *Ochrona środowiska kulturowego*, t.1 i 2, Warszawa 1988. 16. Małachowicz, E., *Stare Miasto we Wrocławiu. Zniszczenia wojenne i odbudowa*, Wrocław 1985. 17. Marzęcki, W., *Ciągłość kulturowa w kształtowaniu przestrzeni miejskiej. Charakterystyka i metoda oceny jakości i zmienności tej przestrzeni*, Szczecin 2002. 18. Mączeński, Z., *Elementy i detale architektoniczne w rozwoju historycznym*, Warszawa 1956. 19. *Odbudowa miast historycznych. Dokonania przeszłości. Potrzeby i możliwości współczesne. Wyzwania przyszłości*, Lubocka-Hoffmann, M.(red.), Elbląg 1998. 20. *Postęp i nowoczesność w konserwacji zabytków, problemy-perspektywy*, Szmygin, B. (red.), Lublin 2005. 21. *Słownik terminów sztuk pięknych*, Kozakiewicz,S. (red.), Warszawa 1996 (wyd. III). 22. *Raport o systemie ochrony dziedzictwa kulturowego w Polsce po roku 1989*, Purchla, J. (red.), Warszawa 2000. 23. *Rozporządzenie Ministra Infrastruktury z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie.* (Dz. U. nr 75, poz. 690; z późniejszymi zmianami). 24. Stein R., *Der Große Ring zu Breslau*, Breslau 1935. 25. Stein R., *Das Breslauer Bürgerhaus*, Breslau 1935. 26. Stein R., *Das Bürgerhaus in Schlesien*, Tübingen 1966. 27. *System ochrony zabytków w Polsce - analiza, diagnoza, propozycje*, Szmygin, B. (red.), Lublin, Warszawa 2011. 28. *System ochrony zabytków w Polsce - analiza, diagnoza, propozycje*, Szmygin, B. (red.), Lublin, Warszawa 2011.     **additional LITERATURE:**   1. Architectural templates of Palladio, Vitruvius, Vignola. 2. Handbooks: *Handbuch der Architektur.* 3. Drawings from the resources of the Building Archive in Wrocław. 4. Archival drawings and archival photographs showing the appearance of buildings in Wrocław and Silesian cities before World War II.   http://fotopolska.eu/, https://polsk-org.pl/, http://uni-marburg.de   1. *ArchDaily | Broadcasting Architecture Worldwide* -https://www.archdaily.com/, 2. *Dezeen | architecture and design magazine*, https://www.dezeen.com/ 3. *ArchitekturaInfo*, https://architektura.info/ 4. *Architekci.PL.*, https://www.architekci.pl/ |

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| **COURSE SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)** |
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