Attachment no. 5 to ZW 16/2020

Attachment no. **5** to studies program

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| **FACULTY OF ARCHITECTURE**  **COURSE SYLLABUS**  Course title in Polish: **Projektowanie urbanistyczne – urbanistyka przyszłości**  Course title in English: **Urban Design - Urban Planning of the Future**  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: **AUA117696P**  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) |  |  |  | **125** |  |
| Form of crediting |  |  |  | **Crediting with grade** |  |
| For group of courses mark (X) final course |  |  |  |  |  |
| Number of ECTS points |  |  |  | **5** |  |
| including number of ECTS points for practical (P) classes |  |  |  | **3** |  |
| including number of ECTS points for direct teacher-student contact classes or other people conducting classes (BU) |  |  |  | **3,75** |  |

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

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| **COURSE OBJECTIVES** |
| **C1** developing students' skills in acquiring knowledge about the latest trends and concepts in urban design and their critical analysis, considering the civilization and ecological challenges of the future.  **C2** developing the knowledge and creative potential of the students in the field of contemporary urban design, in particular the search for creative and innovative design solutions for urban hybrid functional structures.  **C3** development of skills concerning the graphic presentation of complex urban structures in design and planning studies. |

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| **COURSE LEARNING OUTCOMES** |
| **Relating to knowledge:**  1.1.2) The graduate knows and understands detailed issues in the field of architecture and urban planning related to solving complex design problems.  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.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.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:**  1.2.2) 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.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.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 analyse 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. 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.U13. 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.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:**  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 to the course. Discussing the goals and methods of carrying out the classes. Project scope. Conditions of passing the course. | 4 |
| Proj 2 | Paradigms of contemporary urban planning, visions for the 21st century - review of literature studies, inspirations, selection of a leading pattern / idea for the vision of a future multi-functional urban structure - individual work and discussion in subgroups. Consultations. | 4 |
| Proj 3 | Review I: Presentation of the preliminary alternative concepts of the multifunctional urban structure of the future and their theoretical references. Critical discussion in the group. Grading. | 4 |
| Proj 4 | Developing an urban vision (1): Building a functional program and spatial concept. Functionality. Availability. Intensity. Resilience. Composition. Work in groups. Discussion. Consultations. | 4 |
| Proj 5 | Developing an urban vision (2): Morphology and physiognomy. Functional diagrams. Model construction. Graphic record of the urban vision (2D and 3D). Work in groups. Discussion. Consultations. | 4 |
| Proj 6 | Review II. Concept presentation – the multifunctional urban structure of the future (preferred scale 1: 2000). Critical discussion in the group. Grading. Selection of the area for further detailed elaboration. | 4 |
| Proj 7 | Urban and architectural concept of a hybrid functional structure (1) - a part of a previously developed whole. Functionality. Availability. Composition. Architectural elements of the structure. Work in groups. Discussion. Consultations. | 4 |
| Proj 8 | The urban and architectural concept of a hybrid functional structure (2). Morphology and physiognomy. Forms of graphic record. Sections, diagrams. 3D models, visualizations. Work in groups. Discussion. Consultations. | 4 |
| Proj 9 | Urban and architectural concept of a hybrid functional structure (3) Intensity. Resilience. Calculation of urban indicators. Proposals of ecological solutions. Work in groups. Discussion. Consultations. | 4 |
| Proj 10 | Review III. Presentation of the urban and architectural concept of a hybrid functional structure (preferred scale 1:1000 and 1:500). Critical discussion in the group forum. Grading. | 4 |
| Proj 11 | Class exercise – the concept of planning record for a hybrid functional structure. | 4 |
| Proj 12 | Issues and language of the planning record - possibilities and limitations. Innovative solutions. Workshop work based on the class exercise and literature studies, brainstorming. Discussion. | 4 |
| Proj 13 | Selected elements of the local spatial development plan for the hybrid functional structure. Calculation of urban indicators. Consultations. | 4 |
| Proj 14 | Review IV. Project completeness review. Improvement of its individual elements of the design and graphic record. Consultations. | 4 |
| Proj 15 | Presentation of the project all components. Project defense. Grading. | 4 |
|  | **Total hours** | **60** |

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| **TEACHING TOOLS** |
| **N1** - Multimedia presentations.  **N2** - Case studies.  **N3** - Literature studies.  **N4** - Conceptual work.  **N5** - Analytical work.  **N6** - Individual consultations.  **N7** - Group consultations.  **N8** – Problem discussions.  **N9** - Team work.  **N10** - Class exercises.  **N11** - Project presentations.  **N12** - Presentations and group discussions. |

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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 | 1.1.2)  A.W2.  A.W3.  A.W5.  A.W8.  1.2.2)  1.2.3)  1.2.4)  1.2.5)  A.U2.  A.U3.  A.U4.  A.U5.  A.U8.  A.U9.  A.U10.  A.U13.  A.U15.  A.S1.  A.S2.  A.S3  A.S4. | Evaluation of the intermediate stages of the project preparation and the final project concept. |
| F2 | Assessment of active participation in classes, preparation for classes, work and commitment, punctuality. |
| F3 | Assessment of the work independency - the ability to acquire, analyze, process and present the acquired knowledge. |
| **C = 0.7 F1 + 0.15 F2 +0.15 F3** | | |

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| **BASIC AND ADDITIONAL LITERATURE** |
| **basic LITERATURE:**   1. Blowes, A. Evans, B. *Town Planning into the 21st Century.* London 2003. 2. Cho, I. *et al. Re-Framing Urban Space*. New York, 2016. 3. Benítez *C., Contemporary urban design* , Cologne 2009. 4. Graham, W., *Miasta wyśnione : siedem wizji urbanistycznych, które kształtują nasz świat*, Kraków 2016. 5. Hagan, S. *Ecological urbanism: the nature of the city* , London 2015. 6. Kosiński, W. *Paradygmat miasta 21 wieku : pomiędzy przeszłością "polis" a przyszłością "metropolis"*, Kraków 2016. 7. Lynch K., *The Image of the City*, Cambridge 1960. 8. Marschall, R, *Emerging Urbanity,* New York, 2003. 9. Moughtin, C. *Urban Design. Green Dimensions*. London, 2005. 10. Moughtin, C. *Urban Design. Method and Techniques*, London, 2003. 11. Pinder, D. *Visions of the City,* New York, 2011. 12. Rose J. *Dobrze nastrojone miasto : czego współczesna nauka, pradawne cywilizacje i ludzka natura mogą nas nauczyć o przyszłości życia w miastach,* Kraków 2019. 13. Wantuch-Matla, D. *Przestrzeń publiczna 2.0: miasto u progu XXI wieku,* Łódź 2016. 14. Toffler A. i H., *Budowa nowej cywilizacji*, Poznań 1996. 15. *Wybrane teorie współczesnej urbanistyki,* Gdańsk 2013. 16. Zamora Mola, F. *The sourcebook of contemporary urban design*, New York 2012.   **additional LITERATURE:**   1. Callwey G., *Resilient: cities and landscapes*, Munich 2015. 2. Jacobs, J., *Śmierć i życie wielkich miast Ameryki,* Warszawa 2014. 3. Landry, Ch. *Kreatywne miasto: zestaw narzędzi dla miejskich innowatorów,* Warszawa 2013. 4. *Miasta przyszłości – Wyzwania, wizje, perspektywy* (Raport Komisji UE, Miasta Przyszłości. Wyzwania, wizje, perspektywy , 2011, w polskim tłumaczeniu: http://ec.europa.eu/regional\_policy/ sources/docgener/studies/ pdf/citiesoftomorrow/citiesoftomorrow\_final\_pl.pdf (08.05.2015). 5. Morrison, T. *Unbuilt utopian cities 1460 to 1900: reconstructing their architecture and political philosophy,* Farnham 2015. 6. Palej A., *Miasta cywilizacji informacyjnej. Poszukiwanie równowagi pomiędzy światem fizycznym a światem wirtualnym*. Kraków 2003. 7. Paszkowski, Z*. Miasto idealne w perspektywie europejskiej i jego związki z urbanistyką współczesną*, Kraków 2011. 8. Toffler A., *Szok przyszłości*. Poznań 1998. 9. *UAE and the Gulf: architecture and urbanism now,* London 2015. 10. Uffelen, Ch. *Pedestrian zones: car-free urban spaces*, Salenstein 2015. 11. *Urban ecology: patterns, processes, and applications*, 2012. |

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