**Zał. Nr 2 do ZW 16/2020**

**Attachment no. 1. to the Program of Studies**

**ASSUMED LEARNING OUTCOMES**

**FACULTY:** Architecture

**MAIN FIELD OF STUDY:** Spatial Management

**EDUCATION LEVEL:**  S econd-level studies

**PROFILE:** G eneral academic

Location of the main-field-of study:

Branch of science: **Social Sciences (major)**, Engineering and technology

Discipline / disciplines (for several disciplines, please indicate the major discipline):

**Social and economic geography and spatial management (major)**, Architecture and urban planning

Explanation of the markings:

P7U – universal first degree characteristics corresponding to education at the second-level studies - 7 PRK level

P7S – second degree characteristics corresponding to education at the second-level studies - 7 PRK level

W - category "knowledge"  
U - category "skills"  
K - category "social competences"  
K (*faculty symbol*) \_W1, K (*faculty symbol*) \_W2, K (*faculty symbol*) \_W3, … - main-field-of study learning outcomes related to the category "knowledge"  
K (*faculty symbol*) \_U1, K (*faculty symbol*) \_U2, K (*faculty symbol*) \_U3, … - main-field-of study learning outcomes related to the category "skills"  
K (*faculty symbol*) \_K1, K (*faculty symbol*) \_K2, K (*faculty symbol*) \_K3, … - main-field-of study learning outcomes related to the category "social competences"  
S (*faculty symbol*) \_W.., S (*faculty symbol*) \_W.., S (*faculty symbol*) \_W.., … - specialization learning outcomes related to the category "knowledge"  
S (*faculty symbol*) \_U.., S (*faculty symbol*) \_U.., S (*faculty symbol*) \_U.., … - specialization learning outcomes related to the category "skills"  
S (*faculty symbol*) \_K.., S (*faculty symbol*) \_K.., S (*faculty symbol*) \_K.., … - specialization learning outcomes related to the category "social competences"  
… \_inż. – learning outcomes related to the engineer competences

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| **Main field of study**  **learning outcomes** | **Description of learning outcomes for the main-field-of study**  **in Spatial Management 2nd cycle**  After completion of studies, the graduate: | Reference to PRK characteristics | | |
| Universal first degree characteristics (U) | Second degree characteristics typical for qualifications obtained in higher education (S) | |
| Characteristics for qualifications on  7 levels of PRK | Characteristics for qualifications on  6 and 7 levels of PRK, enabling acquiring engineering competences |
| **KNOWLEDGE (W)** | | | | |
| **K2GP\_W01** | demonstrate knowledge of mathematics, physics and engineering that is useful in formulating and completing complex task related to spatial management | **P7U\_W** | **P7S\_WG** |  |
| **K2GP\_W02** | demonstrate knowledge and understanding of advanced experimental, observational and numerical techniques for prognostic research and methods of building mathematical models used in spatial planning and spatial management | **P7U\_W** | **P7S\_WG** | **P7S\_WG\_inż** |
| **K2GP\_W03** | demonstrate in-depth and theoretically grounded knowledge of protection and development of the environment, ecology and principles of sustainable development, which allows one to identify the connections and relationships in nature, understand the complex natural phenomena and processes and their impact on the development of the living environment of people | **P7U\_W** | **P7S\_WK** |  |
| **K2GP\_W04** | demonstrate broad and theoretically grounded knowledge of different types of social structures and institutions, in particular those related to spatial aspects of the functioning or social structures | **P7U\_W** | **P7S\_WK** |  |
| **K2GP\_W05** | demonstrate in-depth and systematic knowledge of the legal system and basic principles of legislation, in particular relating to spatial development, as well as political systems and management of local government units | **P7U\_W** | **P7S\_WK** |  |
| **K2GP\_W06** | demonstrate in-depth, systematic knowledge of the functioning of society and the cultural aspect of planning | **P7U\_W** | **P7S\_WK** |  |
| **K2GP\_W07** | demonstrate systematic and theoretically grounded knowledge related to the functioning of cities and is familiar with contemporary urban development theories and can link them with contemporary civilization challenges, including those relating to the principles of sustainable urban development | **P7U\_W** | **P7S\_WG** |  |
| **K2GP\_W08** | demonstrate systematic and theoretically grounded knowledge related to the functioning of regions and is familiar with contemporary regional development theories and with analytical tools that are used to diagnose the state of regional structures | **P7U\_W** | **P7S\_WG** |  |
| **K2GP\_W09** | demonstrate systematic and in-depth knowledge of the functioning of the European Union and its policies, including those related to regional development, and of the documents related to the spatial aspect of its functioning | **P7U\_W** | **P7S\_WK** |  |
| **K2GP\_W10** | demonstrate systematic and theoretically grounded knowledge of planning of settlement units at an urban, metropolitan, regional, national and European scale. | **P7U\_W** | **P7S\_WG** | **P7S\_WG\_inż** |
| **K2GP\_W11** | identify development trends and the most important new achievements related to the planning methodology and tools, in particular those related to cities, regions and territorial development of the European Union | **P7U\_W** | **P7S\_WG** |  |
| **K2GP\_W12** | demonstrates the knowledge of the issues dealt with in the organization and management psychologically founded in the framework of social communication | **P7U\_W** | **P7S\_WG**  **P7S\_WK** |  |
| **SKILLS (U)** | | | | |
| **K2GP\_U01** | demonstrate the ability to retrieve information from literature, databases and other sources, including those in English; demonstrate the ability to integrate, interpret, compare and critically evaluate the obtained data and draw conclusions and formulate and extensively justify opinions | **P7U\_U** | **P7S\_UW** | **P7S\_WG\_inż** |
| **K2GP\_U02** | apply statistical methods and information techniques and tools, in particular GIS tools, to data analyze, to describe phenomena and as well as predicting future states of spatial systems | **P7U\_U** | **P7S\_UW** | **P7S\_WG\_inż** |
| **K2GP\_U03** | plan and carry out basic studies and analysis in the area of spatial planning and spatial management, create models and critically evaluate the results of such studies and discuss the possible errors | **P7U\_U** | **P7S\_UW**  **P7S\_UK** | **P7S\_WG\_inż** |
| **K2GP\_U04** | analyze social phenomena and perform a theoretically grounded evaluation of such phenomena in relation to space, correctly interpret and explain the social, cultural, political, legal and economic phenomena and the mutual relationships between these phenomena and evaluate their impact on spatial development and planned spatial solutions | **P7U\_U** | **P7S\_UW** |  |
| **K2GP\_U05** | effectively apply normative systems, legal and professional norms and rules in relation to spatial management and related areas | **P7U\_U** | **P7S\_UW** | **P7S\_WG\_inż** |
| **K2GP\_U06** | plan and carry out the procedure of formulating all the urban planning and planning documents required by law | **P7U\_U** | **P7S\_UW** | **P7S\_WG\_inż** |
| **K2GP\_U07** | analyze in detail and rationally plan the spatial structure of the city and its functional area as well as individual parts of the city | **P7U\_U** | **P7S\_UW** | **P7S\_UW\_inż** |
| **K2GP\_U08** | analyze in detail and rationally plan the spatial structure of a region and Euroregion | **P7U\_U** | **P7S\_UW** |  |
| **K2GP\_U09** | assess and compare spatial solutions with respect to given usability criteria, and with respect to their social usability, public good, requirements of sustainable development and efficiency, including technical efficiency | **P7U\_U** | **P7S\_UW** | **P7S\_UW\_inż** |
| **K2GP\_U10** | devise project specification of a complex planning task including the legal and technical aspects and non-technical aspects, such as their social influence, possible methods of implementation and efficiency | **P7U\_U** | **P7S\_UW** | **P7S\_WG\_inż** |
| **K2GP\_U11** | assess the usability and possibility of implementation of new achievements related to the methods and techniques in urban and spatial planning, as well as spatial management involving innovative solutions | **P7U\_U** | **P7S\_UW** | **P7S\_UW\_inż** |
| **K2GP\_U12** | prepare and deliver a presentation of a planning problem and lead a discussion pertaining to such presentation | **P7U\_U** | **P7S\_UK** |  |
| **K2GP\_U13** | Use a foreign language at the B2+ or C1+ CEFR level, in particular scientific and technical language, which allows him or her to communicate, also in professional matters, read and understand professional literature and prepare and deliver a presentation for different forms of specialist debates.  Use a second foreign language at the A1 or A2 CEFR level. | **P7U\_U** | **P7S\_UK** |  |
| **K2GP\_U14** | understand the importance of lifelong learning, define one’s interests and describe the opportunities for professional development | **P7U\_U** | **P7S\_UU** |  |
| **K2GP\_U15** | work independently and in a team; assess the time needed to complete a task; manage a small team in a manner that guarantees the completion of tasks in due time | **P7U\_K** | **P7S\_UO** |  |
| **K2GP\_U16** | moderate a debate both on a professional forum as well as in any social system, know and use effective methods of communicating with various stakeholders | **P7U\_U** | **P7S\_UK** |  |
| **SOCIAL COMPETENCES (K)** | | | | |
| **K2GP\_K01** | be critical of his or her knowledge and skills and constantly deepen, expand and perfect them | **P7U\_K** | **P7S\_KK** |  |
| **K2GP\_K02** | recognize the importance of knowledge in solving cognitive problems, be guided by the principle of rationality in identifying and solving problems | **P7U\_K** | **P7S\_KK** |  |
| **K2GP\_K03** | cooperate with non-professionals in order to devise better solutions, undertake actions that serve local communities or other social groups | **P7U\_K** | **P7S\_KO** |  |
| **K2GP\_K04** | work for the public interest and understand the social responsibility of the urban planning profession | **P7U\_K** | **P7S\_KO** |  |
| **K2GP\_K05** | comply with the rules of professional ethics of an urban planner and expect the same from others | **P7U\_K** | **P7S\_KR** |  |

Attachment no. 1

**Specialization ………………………….**

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| **Specialization**  **learning outcomes** | **Description of learning outcomes for the specialization**  **………………………**  After completion of studies, the graduate: | Reference to PRK characteristics | | |
| Universal first degree characteristics (U) | Second degree characteristics typical for qualifications obtained in higher education (S) | |
| Characteristics for qualifications on  6 / 7\* levels of PRK | Characteristics for qualifications on  6 and 7 levels of PRK, enabling acquiring engineering competences |
| **KNOWLEDGE (W)** | | | | |
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| **SKILLS (U)** | | | | |
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| **SOCIAL COMPETENCES (K)** | | | | |
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\*delete as applicable