**Zał. nr 3 do ZW 16/2020**

**Attachment no. 2. to the Program of Studies**

**DESCRIPTION OF THE PROGRAM OF STUDIES**

**Main field of study Spatial Management Profile General academic**

**Level of studies Second-level studies Form of studies Full-time studies**

**1.** **General description**

|  |  |
| --- | --- |
| *1.1 Number of semesters:*  *3* | *1.2 Total number of ECTS points necessary to complete studies at a given level:*  *90* |
| *1.3 Total number of hours:*  *1020* | *1.4 Prerequisites (particularly for second-level studies):*  Graduation of the1st level studies or 2nd level studies, graduation evaluation (diploma) |
| *1.5 Upon completion of studies graduate obtains professional degree of:*  *Master of Science in Engineering* | *1.6 Graduate profile, employability:*  *Graduates acquire the necessary knowledge and practical skills in relation to the shaping and management of space in five main areas:*   * *planning for the climate - as a response to civilization threats,* * *urban transformation - as a response to the changing expectations of residents and the challenges of the present day,* * *participatory planning - as a response to the growing aspirations to participate in the creation of a place to live,* * *digital technologies - as a response to the increasing complexity and virtualization of reality,* * *operational urban planning - as a response to the need to effectively implement visions, intentions, plans and concepts related to the creation of space.*   *To implement these skills, a graduate of spatial management should have analytical, creative, methodological and negotiating competences, and should also understand the social and intercultural conditions of his activity. Graduates are prepared to complete the role of:*   * *space manager - a person managing the spatial development of cities, communes, counties, regions and the country,* * *a professional in drawing up programs aimed at increasing the competitiveness of cities, communes and regions, protecting and shaping the natural environment, planning the development of technical infrastructure and systems, as well as developing analyzes and taking actions in territorial marketing,* * *analyst in the field of forecasting and simulating various variants of spatial development based on specialized models,* * *an adviser and negotiator with competence in creating public-private cooperation, in resolving spatial conflicts and in the field of regional cooperation,* * *designer of planning documents for settlement units as well as regions, euroregions and the country,* * *the creator of a vision of development and strategies for the transformation of spatial units,* * *specialist in constructing the European perspective of spatial development,* * *researcher of phenomena and processes in the field of spatial management.*   *During their studies, they should master the ability to cooperate with people, lead teams and manage public administration institutions, design offices, advisory offices and business environment, as well as government and commercial institutions and agencies. Graduates are prepared to work in:*   * *local and government administration units,* * *design studios,* * *enterprises related to spatial management, including in particular those operating in the field of investments,* * *development companies and real estate companies,* * *development agencies,* * *consulting and advisory companies,* * *business environment companies,* * *higher education - at universities, including natural and economic universities,* * *scientific and research institutions and research and development centers,* * *institutions dealing with counseling and disseminating knowledge in the field of spatial management.* |
| *1.7 Possibility of continuing studies: Doctoral School* | *1.8 Indicate connection with University’s mission and its development strategy:*  *Spatial management is and should be treated as the foundation for shaping a competent future. By dealing with the professional assessment of civilization processes and creating effective methods of solving problems, also in the culture of the experiment, and by cooperating with the scientific community and social and public stakeholders, competent specialists in spatial management contribute to constant and sustainable development for contemporary and future generations.*    *The inclusion of practitioners, scientific, social and economic communities and representatives of municipal and regional authorities in the education process, and the operation of student scientific clubs, with a high interdisciplinarity of the field, ensures an increase in competences and supports creative attitudes, as well as promotes the commercialization and application of research results.* |

1. **Detailed description**

**2.1 Total number of learning outcomes in the program of study: W (knowledge) = 12, U (skills) = 16, K (competences) = 5, W + U + K = 33**

**2.2 For the main field of study assigned to more than one discipline - the number of learning outcomes assigned to the discipline:  
 D1** Social and economic geography and spatial management**(major) 20 learning outcomes** (60% of total number of learning outcomes)(this number must be greater than half the total number of learning outcomes) **D2** Architecture and urban planning **13 learning outcomes** (40% of total number of learning outcomes)

**2.3 For the main field of study assigned to more than one discipline - percentage share of the number of ECTS points for each discipline:  
 D1** Social and economic geography and spatial management**(major) 63% of total number of** **ECTS points (57 ECTS points)  
 D2** Architecture and urban planning **37% of total number of** **ECTS points (33 ECTS points)**

**2.4a. For the general academic profile of the main field of study – the** **number of ECTS points assigned to the classes related to the University's academic activity in the discipline or disciplines to which the main field of study is assigned – DN (must be greater than 50% of the total number of ECTS points from 1.2) 63 ECTS points** (70% of total number of ECTS points)

**2.5 Concise analysis of compliance of the assumed learning outcomes with the needs of the labor market**

Currently, the labor market shows a demand for educated employees who demonstrate digital proficiency, management skills, creativity - inspirational use of available solutions in everyday work and soft skills: the ability to adapt to changing situations, the ability to work in a group. The interdisciplinary nature of the learning outcomes in the field of Spatial Management emphasizes all of the above-mentioned competences and allows synergistic use of solutions used in engineering and technical, social, natural, humanistic and agricultural fields of science.

**2.6. The total number of ECTS points that a student must obtain in classes requiring direct participation of academic teachers or other persons conducting classes and students** (enter the sum of ECTS points for courses / groups of courses marked with the BU1 code) **52 ECTS points** (58% of total number of ECTS points)

**2.7.** **Total number of ECTS points, which student has to obtain from basic sciences classes**

|  |  |
| --- | --- |
| Number of ECTS points for obligatory subjects | 7 |
| Number of ECTS points for optional subjects | 0 |
| Total number of ECTS points | 7 |

**2.8.** **Total number of ECTS points, which student has to obtain from practical classes, including project and laboratory classes** (enter total number of ECTS points for courses/group of courses denoted with code P) **42 ECTS points** ( 47% of total number of ECTS points)

|  |  |
| --- | --- |
| Number of ECTS points for obligatory subjects | 11 |
| Number of ECTS points for optional subjects | 31 |
| Total number of ECTS points | 42 |

**2.9.** **Minimum number of ECTS points, which student has to obtain doing education blocks offered as part of University-wide classes or other main field of study** (enter number of ECTS points for courses/groups of courses denoted with code O)

5 ECTS points

**2.10.** **Total number of ECTS points, which student may obtain doing optional blocks (min. 30% of total number of ECTS points)**

41 ECTS points (46% of total number of ECTS points)

**3.** **Description of the process leading to learning outcomes acquisition:**

Participation in classes, student's own work.

Knowledge verification:

* + - through tests and examinations carried out during the studies, presentations of work results, work in teams,
* through the diploma process, including the knowledge test and the presentation of the master's thesis.

**4.** **List of education blocks:**

**4.1. List of obligatory blocks:**

**4.1.1 List of general education blocks**

**4.1.1.1 *Liberal-managerial subjects* block***(min. 11 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol GK) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| 1 | GPA117573W | Planning theory | 2 | - | - | - | - | K2GP\_W04 K2GP\_W06 K2GP\_W11 K2GP\_U01 K2GP\_U04 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 30 | 90 | 3 | 3 | 2 | T | E | - | DN | - | KO |
| 2 | GPA117605W | Spatial Planning Organization | 2 | - | - | - | - | K2GP\_W05 K2GP\_U05 K2GP\_K01 K2GP\_K04 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | KO |
| 3 | GPA117575W | Law on Spatial Planning | 1 | - | - | - | - | K2GP\_W05 K2GP\_U05 K2GP\_K01 K2GP\_K04 | 15 | 30 | 1 | 1 | 1 | T | Z | - | DN | - | KO |
| 4 | GPA117576W | Project management | 2 | - | - | - | - | K2GP\_W06 K2GP\_W07 K2GP\_W08 K2GP\_W11 K2GP\_U01 K2GP\_U04 K2GP\_U10 K2GP\_U14 K2GP\_U15 K2GP\_K01 K2GP\_K02 K2GP\_K03 K2GP\_K04 K2GP\_K05 | 30 | 60 | 2 | 0 | 1 | T | Z | - | - | - | KO |
| 5 | GPA117577W | Territorial marketing | 1 | - | - | - | - | K2GP\_W04 K2GP\_W05 K2GP\_W06 K2GP\_W10 K2GP\_W11 K2GP\_W12 K2GP\_U01 K2GP\_U04 K2GP\_U06 K2GP\_U11 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 15 | 30 | 1 | 1 | 1 | T | Z | - | DN | - | KO |
| 6 | GPA117607W | Problems of spatial development management | 2 | - | - | - | - | K2GP\_W04 K2GP\_W05 K2GP\_W06 K2GP\_W10 K2GP\_W12 K2GP\_U04 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U11 K2GP\_U16 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 30 | 60 | 2 | 0 | 1 | T | Z | - | - | - | KO |
|  | | Total | 10 | - | - | - | - |  | 150 | 330 | 11 | 7 | 7 |  |  |  |  |  |  |

**4.1.1.2 *Foreign languages* block** *(min. 0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**4.1.1.3 *Sporting classes* block** *(0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**4.1.1.4 *Information technologies* block***(min. 0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**Altogether for general education blocks**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total number of hours | | | | | Total number of  ZZU  hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS points for DN classes5 | Number of ECTS points for BU classes1 |
| lec | cl | lab | pr | sem |  |  |  |  |  |
| 10 | - | - | - | - | 150 | 330 | 11 | 7 | 7 |

**4.1.2 List of basic sciences blocks**

**4.1.2.1 *Mathematics* block**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol GK) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| 1 | MAT001753W | Elements of higher mathematics | 2 | - | - | - | - | K2GP\_W01 K2GP\_W02 K2GP\_U02 | 30 | 60 | 2 | 0 | 1 | T | Z | - | - | - | PD |
|  | | Total | 2 | - | - | - | - |  | 30 | 60 | 2 | 0 | 1 |  |  |  |  |  |  |

**4.1.2.2 *Physics* block**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol GK) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| 1 | GPA117567W | Systems theory | 2 | - | - | - | - | K2GP\_W02 K2GP\_W03 K2GP\_W04 K2GP\_W11 K2GP\_U01 K2GP\_U04 K2GP\_U11 K2GP\_U15 K2GP\_K01 K2GP\_K02 | 30 | 90 | 3 | 3 | 2 | T | E | - | DN | - | PD |
| 2 | GPA117566W | Models in Spatial Management | 2 | - | - | - | - | K2GP\_W01 K2GP\_W02 K2GP\_W06 K2GP\_W11 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_K01 K2GP\_K02 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | PD |
|  | | Total | 4 | - | - | - | - |  | 60 | 150 | 5 | 5 | 3 |  |  |  |  |  |  |

**4.1.2.3 *Chemistry* block**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**Altogether for basic sciences blocks:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total number of hours | | | | | Total number of  ZZU  hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS points for DN classes5 | Number of ECTS points for BU classes1 |
| lec | cl | lab | pr | sem |  |  |  |  |  |
| 6 | - | - | - | - | 90 | 210 | 7 | 5 | 4 |

**4.1.3 List of the main field of study blocks**

**4.1.3.1 *Obligatory main field of study* blocks**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol GK) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| 1 | GPA117568W | Shaping and the protection of the environment | 2 | - | - | - | - | K2GP\_W03 K2GP\_W07 K2GP\_U01 K2GP\_U09 K2GP\_K01 K2GP\_K02 K2GP\_K04 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | K |
| 2 | GPA117569W | Directions of transformations of contemporary cities | 2 | - | - | - | - | K2GP\_W03 K2GP\_W04 K2GP\_W06 K2GP\_W07 K2GP\_W10 K2GP\_W11 K2GP\_U01 K2GP\_U04 K2GP\_U07 K2GP\_U11 K2GP\_K01 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | K |
| 3 | GPA117570W | From governing to governance | 2 | - | - | - | - | K2GP\_W04 K2GP\_W05 K2GP\_U04 K2GP\_U09 K2GP\_K04 K2GP\_K05 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | K |
| 4 | GPA117571W | Operational spatial planning | 2 | - | - | - | - | K2GP\_W04 K2GP\_W05 K2GP\_W06 K2GP\_W07 K2GP\_W10 K2GP\_W11 K2GP\_W12 K2GP\_U01 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U10 K2GP\_U11 K2GP\_U12 K2GP\_U15 K2GP\_U16 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | K |
| 5 | GPA117572L | Supporting the decision-making process 1 | - | - | 2 | - | - | K2GP\_W01 K2GP\_W02 K2GP\_W06 K2GP\_W11 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_K01 K2GP\_K02 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | P | K |
| 6 | GPA117574W | Legislative technique in planning 1 | 2 | - | - | - | - | K2GP\_W04 K2GP\_W05 K2GP\_W10 K2GP\_U01 K2GP\_U06 K2GP\_U11 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 30 | 90 | 3 | 3 | 2 | T | E | - | DN | - | K |
| 7 | GPA117578C | Legislative technique in planning 2 | - | 2 | - | - | - | K2GP\_W04 K2GP\_W05 K2GP\_W10 K2GP\_U01 K2GP\_U06 K2GP\_U11 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | P | K |
| 8 | GPA117579L | Supporting the decision-making process 2 | - | - | 3 | - | - | K2GP\_W02 K2GP\_W08 K2GP\_W11 K2GP\_U01 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_U09 K2GP\_U11 K2GP\_U12 K2GP\_U15 K2GP\_K01 K2GP\_K02 | 45 | 90 | 3 | 3 | 2 | T | Z | - | DN | P | K |
| 9 | GPA117603W | Knowledge of architecture | 2 | - | - | - | - | K2GP\_W10 K2GP\_U01 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | K |
| 10 | GPA117580W | Planning for city development | 2 | - | - | - | - | K2GP\_W03 K2GP\_W04 K2GP\_W06 K2GP\_W07 K2GP\_W10 K2GP\_W11 K2GP\_U01 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U10 K2GP\_U12 K2GP\_U15 K2GP\_U16 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 30 | 90 | 3 | 3 | 2 | T | E | - | DN | - | K |
| 11 | GPA117581P | Planning for city development | - | - | - | 4 | - | K2GP\_W03 K2GP\_W04 K2GP\_W06 K2GP\_W07 K2GP\_W10 K2GP\_W11 K2GP\_U01 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U10 K2GP\_U12 K2GP\_U15 K2GP\_U16 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 60 | 120 | 4 | 4 | 2 | T | Z | - | DN | P | K |
| 12 | GPA117583W | Spatial Policy of the European Union | 2 | - | - | - | - | K2GP\_W04 K2GP\_W05 K2GP\_W09 K2GP\_W11 K2GP\_U01 K2GP\_U04 K2GP\_K01 K2GP\_K02 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | K |
| 13 | GPA117582W | Regional policy | 2 | - | - | - | - | K2GP\_W08 K2GP\_W09 K2GP\_W11 K2GP\_U04 K2GP\_U14 K2GP\_K01 K2GP\_K02 K2GP\_K04 | 30 | 60 | 2 | 2 | 1 | T | Z | - | DN | - | K |
|  | | Total | 18 | 2 | 5 | 4 | - |  | 435 | 930 | 31 | 31 | 17 |  |  |  |  |  |  |

**Altogether (for main field of study blocks):**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total number of hours | | | | | Total number of  ZZU  hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS points for DN classes5 | Number of ECTS points for BU classes1 |
| lec | cl | lab | pr | sem |  |  |  |  |  |
| 18 | 2 | 5 | 4 | - | 435 | 930 | 31 | 31 | 17 |

**4.2 List of optional blocks**

**4.2.1 List of general education blocks**

**4.2.1.1 Liberal-managerial subjects blocks***(min. 0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**4.2.1.2 *Foreign languages* block** *(min. .......... ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol GK) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| 1 | JZL100930BK | Foreign language 1 | - | 1 | - | - | - | K2GP\_U13 | 15 | 30 | 1 | 0 | 1 | T | Z | O | - | P | KO |
| 2 | JZL100929BK | Foreign language 2 | - | 3 | - | - | - | K2GP\_U13 | 45 | 60 | 2 | 0 | 1 | T | Z | O | - | P | KO |
|  | | Total | - | 4 | - | - | - |  | 60 | 90 | 3 | 0 | 2 |  |  |  |  |  |  |

**4.2.1.3 Sporting classes block** *(0. ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**4.2.1.4 *Information technologies* block***(min. 0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**Altogether for general education blocks:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total number of hours | | | | | Total number of  ZZU  hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS points for DN classes5 | Number of ECTS points for BU classes1 |
| lec | cl | lab | pr | sem |  |  |  |  |  |
| - | 4 | - | - | - | 60 | 90 | 3 | 0 | 2 |

**4.2.2 List of basic sciences blocks**

**4.2.2.1 *Mathematics* block***(min. 0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**4.2.2.2 *Physics* block***(min. 0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**4.2.2.3 *Chemistry* block***(min. 0 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol **GK**) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| - | - | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - |
|  | | Total | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |

**Altogether for basic sciences blocks:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total number of hours | | | | | Total number of  ZZU  hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS points for DN classes5 | Number of ECTS points for BU classes1 |
| lec | cl | lab | pr | sem |  |  |  |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**4.2.3 List of blocks**

**4.2.3.1 *Optional block in field of studies*** *(min. 18 ECTS points):*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Course/  group of courses code | Name of course/group of courses (denote group of courses with symbol GK) | Weekly number of hours | | | | | Learning effect symbol | Number of hours | | Number of ECTS points | | | Form2 of course/group of courses | Way3 of crediting | Course/group of courses | | | |
| lec | cl | lab | pr | sem | ZZU | CNPS | Total | DN5 classes | BU1 classes | University-wide4 | Concerning scientific activities5 | Practical6 | Type7 |
| 1 | GPA117609BK | Optional block in field of studies | - | - | - | 18 | - | - | 270 | 540 | 18 | 0 | 12 | T | Z | - | - | P | K |
| 1.1 | GPA117599P | Urban areas sustainable development strategies | - | - | - | 3 | - | K2GP\_W03 K2GP\_W07 K2GP\_U01 K2GP\_U09 K2GP\_K02 K2GP\_K04 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.2 | GPA117584P | Revitalization of Urban Areas | - | - | - | 3 | - | K2GP\_W03 K2GP\_W04 K2GP\_W06 K2GP\_W09 K2GP\_W12 K2GP\_U01 K2GP\_U04 K2GP\_U09 K2GP\_U16 K2GP\_K01 K2GP\_K03 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.3 | GPA117585P | Multi-level governance | - | - | - | 3 | - | K2GP\_W04 K2GP\_W05 K2GP\_U15 K2GP\_U16 K2GP\_K03 K2GP\_K04 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.4 | GPA117586P | Planning based on GIS spatial analysis | - | - | - | 3 | - | K2GP\_W02 K2GP\_U02 K2GP\_U08 K2GP\_U12 K2GP\_K02 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.5 | GPA117587P | Operationalization of regional planning | - | - | - | 3 | - | K2GP\_W08 K2GP\_W09 K2GP\_W10 K2GP\_U01 K2GP\_U02 K2GP\_U08 K2GP\_U09 K2GP\_U10 K2GP\_U12 K2GP\_U16 K2GP\_K04 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.6 | GPA117588P | Pro-climate planning | - | - | - | 3 | - | K2GP\_W03 K2GP\_W05 K2GP\_W11 K2GP\_U01 K2GP\_U05 K2GP\_U09 K2GP\_U10 K2GP\_U12 K2GP\_K01 K2GP\_K02 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.7 | GPA117589P | City Re-newal | - | - | - | 3 | - | K2GP\_W03 K2GP\_W05 K2GP\_W07 K2GP\_U01 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U10 K2GP\_K01 K2GP\_K04 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.8 | GPA117590P | Participatory budgeting | - | - | - | 3 | - | K2GP\_W04 K2GP\_W05 K2GP\_U15 K2GP\_U16 K2GP\_K03 K2GP\_K04 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.9 | GPA117591P | Elements of city and region development strategy | - | - | - | 3 | - | K2GP\_W04 K2GP\_W06 K2GP\_U01 K2GP\_U03 K2GP\_U04 K2GP\_U09 K2GP\_U10 K2GP\_U12 K2GP\_U15 K2GP\_U16 K2GP\_K03 K2GP\_K04 K2GP\_K05 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.10 | GPA117592P | Transportation Analysis and Forecasting Techniques in the Settlement Systems | - | - | - | 3 | - | K2GP\_W02 K2GP\_W11 K2GP\_U02 K2GP\_U12 K2GP\_K01 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.11 | GPA117593P | Operational planning of city development | - | - | - | 3 | - | K2GP\_W04 K2GP\_W05 K2GP\_W06 K2GP\_W07 K2GP\_W10 K2GP\_W11 K2GP\_W12 K2GP\_U01 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U10 K2GP\_U11 K2GP\_U12 K2GP\_U15 K2GP\_U16 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.12 | GPA117594P | The Microclimate of the Estate. Methods and Tools | - | - | - | 3 | - | K2GP\_W03 K2GP\_W07 K2GP\_W10 K2GP\_U01 K2GP\_U02 K2GP\_U09 K2GP\_U11 K2GP\_U12 K2GP\_U15 K2GP\_K01 K2GP\_K02 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.13 | GPA117595P | Repair of urban spaces | - | - | - | 3 | - | K2GP\_W03 K2GP\_W05 K2GP\_W06 K2GP\_W07 K2GP\_U01 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U10 K2GP\_K01 K2GP\_K04 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.14 | GPA117598P | Designing for Local Community | - | - | - | 3 | - | K2GP\_W04 K2GP\_W05 K2GP\_W06 K2GP\_U04 K2GP\_U09 K2GP\_U12 K2GP\_U16 K2GP\_K03 K2GP\_K04 K2GP\_K05 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.15 | GPA117596P | Spatial Information System of the Settlement Unit | - | - | - | 3 | - | K2GP\_W11 K2GP\_W10 K2GP\_U01 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_U11 K2GP\_K02 K2GP\_K04 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.16 | GPA117597P | Operational planning of urban structures | - | - | - | 3 | - | K2GP\_W04 K2GP\_W05 K2GP\_W06 K2GP\_W07 K2GP\_W10 K2GP\_W11 K2GP\_W12 K2GP\_U01 K2GP\_U02 K2GP\_U03 K2GP\_U04 K2GP\_U06 K2GP\_U07 K2GP\_U09 K2GP\_U10 K2GP\_U11 K2GP\_U12 K2GP\_U15 K2GP\_U16 K2GP\_K01 K2GP\_K02 K2GP\_K04 K2GP\_K05 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
| 1.17 | GPA117692P | Revalorization of historic urban interiors- design of contemporary urban detail in the monumental context | - | - | - | 3 | - | K2GP\_W03  K2GP\_W04  K2GP\_W05  K2GP\_W06  K2GP\_W07  K2GP\_W09  K2GP\_W12  K2GP\_U01  K2GP\_U04  K2GP\_U09  K2GP\_U16  K2GP\_K01  K2GP\_K03 | 45 | 90 | 3 | 0 | 2 | T | Z | - | - | P | K |
|  | | Total | - | - | - | 18 | - |  | 270 | 540 | 18 | 0 | 12 |  |  |  |  |  |  |

**Altogether for blocks:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total number of hours | | | | | Total number of  ZZUhours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS points for DN classes5 | Number of ECTS points for BU classes1 |
| lec | cl | lab | pr | sem |  |  |  |  |  |
| - | - | - | 18 | - | 270 | 540 | 18 | 0 | 12 |

**4.4** „**Diploma dissertation” block (*if it is foreseen at first level studies)***

|  |  |  |
| --- | --- | --- |
| **Type of diploma dissertation** | ~~Licencjat / inżynier /~~ Master of Science/Master of Science in Engineering\* | |
| **Number of diploma dissertation semesters** | **Number of ECTS points** | **Code** |
| 3 | 20 | GPA117601D |
| **Character of diploma dissertation** | | |
| **Literature survey with a clear theoretical component, with references to the literature on the subject project,** | | |
| **Number of BU1 ECTS points** | 10 | |
| **Number of ECTS DN5 points** | 20 | |

**5. Ways of verifying assumed learning outcomes**

|  |  |
| --- | --- |
| **Type of classes** | **Ways of verifying assumed learning outcomes** |
| lecture | e.g. examination, progress/final test |
| class | e.g. progress/final test |
| laboratory | e.g. pretest, report from laboratory, exercise |
| project | e.g. participation in discussion, topic presentation, project defence |
| seminar | e.g. participation in discussion, topic presentation, essay |
| diploma dissertation | prepared diploma dissertation |

**6.** **Range of diploma examination**

Components of the diploma examination:

* + A written test composed of open questions from the obligatory subjects block (50%);
  + Presentation of the thesis (50%)

**7.** **Requirements concerning deadlines for crediting courses/groups of courses for all courses in particular blocks**

|  |  |  |  |
| --- | --- | --- | --- |
| *No.* | *Course / group of courses code* | *Name of course / group of courses* | *Crediting by deadline of... (number of semester)* |
| *1* | MAT001753W | Elements of higher mathematics | *Crediting by deadline of 1 semester* |
| *2* | GPA117567W | Systems theory | *Crediting by deadline of 1 semester* |
| *3* | GPA117566W | Models in Spatial Management | *Crediting by deadline of 1 semester* |
| *4* | GPA117568W | Shaping and the protection of the environment | *Crediting by deadline of 1 semester* |
| *5* | GPA117569W | Directions of transformations of contemporary cities | *Crediting by deadline of 1 semester* |
| *6* | GPA117570W | From governing to governance | *Crediting by deadline of 1 semester* |
| *7* | GPA117571W | Operational spatial planning | *Crediting by deadline of 1 semester* |
| *8* | GPA117572L | Supporting the decision-making process 1 | *Crediting by deadline of 1 semester* |
| *9* | GPA117609BK | Optional block in field of studies | *Crediting by deadline of 1 semester* |
| *10* | GPA117605W | Spatial Planning Organization | *Crediting by deadline of 2 semester* |
| *11* | GPA117575W | Law on Spatial Planning | *Crediting by deadline of 2 semester* |
| *12* | GPA117576W | Project management | *Crediting by deadline of 2 semester* |
| *13* | GPA117577W | Territorial marketing | *Crediting by deadline of 2 semester* |
| *14* | GPA117607W | Problems of spatial development management | *Crediting by deadline of 2 semester* |
| *15* | GPA117578C | Legislative technique in planning 2 | *Crediting by deadline of 2 semester* |
| *16* | GPA117579L | Supporting the decision-making process 2 | *Crediting by deadline of 2 semester* |
| *17* | GPA117603W | Knowledge of architecture | *Crediting by deadline of 2 semester* |
| *18* | GPA117580W | Planning for city development | *Crediting by deadline of 2 semester* |
| *19* | GPA117581P | Planning for city development | *Crediting by deadline of 2 semester* |
| *20* | GPA117609BK | Optional block in field of studies | *Crediting by deadline of 2 semester* |
| *21* | GPA117601D | Master thesis | *Crediting by deadline of 3 semester* |
| *22* | GPA117583W | Spatial Policy of the European Union | *Crediting by deadline of 3 semester* |
| *23* | GPA117582W | Regional policy | *Crediting by deadline of 3 semester* |
| *24* | GPA117609BK | Optional block in field of studies | *Crediting by deadline of 3 semester* |
| *25* | JZL100930BK | Foreign language 1 | *Crediting by deadline of 3 semester* |
| *26* | JZL100929BK | Foreign language 2 | *Crediting by deadline of 3 semester* |

**8.** **Plan of studies (attachment no. 3)**

Approved by faculty student government legislative body:

................... ................................................................................

Date name and surname, signature of student representative

................... ................................................................................

Date Dean’s signature

\*delete as appropriate