



## Subject card

|   |  |  |  |                                     |                               |            |     |
|---|--|--|--|-------------------------------------|-------------------------------|------------|-----|
| Subject name and code                       | Geodesic territorial development net, PG_00044848  |  |  |                                     |                               |            |     |
| Field of study                              | Geodesy and Cartography  |  |  |                                     |                               |            |     |
| Date of commencement of studies             | October 2023   | Academic year of realisation of subject                  |  |                                     | 2025/2026                     |            |     |
| Education level                             | first-cycle studies  | Subject group  |  |                                     | Optional subject group        |            |     |
| Mode of study                               | Full-time studies  | Mode of delivery   |  |                                     | at the university             |            |     |
| Year of study                               | 3  | Language of instruction                                  |  |                                     | Polish                        |            |     |
| Semester of study                           | 5  | ECTS credits   |  |                                     | 4.0                           |            |     |
| Learning profile                            | general academic profile   | Assessment form  |  |                                     | assessment                    |            |     |
| Conducting unit                             | Department of Geodesy -> Faculty of Civil and Environmental Engineering  |  |  |                                     |                               |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor   |  |  |                                     |                               |            |     |
|   | Teachers   |  |  |                                     |                               |            |     |
| Lesson types and methods of instruction     | Lesson type  | Lecture  | Tutorial   | Laboratory                          | Project                       | Seminar    | SUM |
|   | Number of study hours  | 30.0   | 15.0   | 0.0                                 | 0.0                           | 0.0        | 45  |
|   | 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  | 45   |  | 8.0                                 |                               | 47.0       | 100 |
| Subject objectives                          | Getting to know the principles of operation of the Geodetic Record of Territorial Armaments Networks (GESUT) and the rules in force when conducting coordination meetings convened during the arrangement of the course of newly designed networks. Acquiring the ability to operate and locate the network of utilities with the help of wire detectors. Acquiring the skills to complete documentation related to the post-reconnaissance and localization inventory of SUT installations. |  |  |                                     |                               |            |     |
| Learning outcomes                           | Course outcome   |  | Subject outcome  |                                     | Method of verification        |            |     |
|   | [K6_U02] can make basic geodetic drawings and read an architectural technical drawing  |  | Can take measurement as well prepare documentation related to delimitation and inventory of network elements utilities - including preparation technical operations. |                                     |                               |            |     |
|   | [K6_W10] has elementary knowledge and understands the concepts of architecture and urban planning, construction, environmental engineering and transport necessary to carry out studies related to planning and investment service   |  | He can prepare documentation related to delimitation and inventory of network elements utilities.  |                                     |                               |            |     |
| Subject contents                            | GESUT and RUDP - structure and principle of operation, type and scope of information collected in GESUT databases. Knowledge of the type and scope of geodetic and cartographic studies related to GESUT and RUDP. Ability to edit technical documentation. Principles of reconciliation of the location of the designed utilities networks, delineation of the designed elements (principles and accuracy), as-built inventory of the land utilities networks (principles and accuracy).    |  |  |                                     |                               |            |     |
| Prerequisites and co-requisites             | Ability to use geodetic instruments, principles of conducting field measurements. Ability to prepare technical documentation of the performed measurement. Ability to work with basic geodetic software in the field of calculations and graphic editing of a basic map. Basic knowledge of law.   |  |  |                                     |                               |            |     |
| Assessment methods and criteria             | Subject passing criteria   |  | Passing threshold  |                                     | Percentage of the final grade |            |     |
|   |  |  | 60.0%  |                                     | 60.0%                         |            |     |
|   |  |  | 100.0%   |                                     | 40.0%                         |            |     |

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|--|--------------------------|---|
| Recommended reading  | Basic literature         | <p>1. Rozporządzenie Ministra Administracji i Cyfryzacji z dnia 12 lutego 2013 r. w sprawie bazy danych geodezyjnej ewidencji sieci uzbrojenia terenu, bazy danych obiektów topograficznych oraz mapy zasadniczej. Dz.U. 2013 nr 0 poz. 383</p> <p>2. Geodezja Inżynieryjna, PPWK Warszawa 1994</p> <p>3. Ewidencja gruntów i budynków. Geodezyjna ewidencja sieci uzbrojenia terenu. pod red. S.Surowca Wyd. UWM Olsztyn 2003r</p> |
|  | Supplementary literature | <p>1. USTAWA z dnia 17 maja 1989 r. Prawo geodezyjne i kartograficzne. Dz. U. Nr 193 poz. 1287</p> <p>2. Instrukcja G-4.4</p>   |
|  | eResources addresses     | Adresy na platformie eNauczanie:  |
| Example issues/<br>example questions/<br>tasks being completed |                          |   |
| Work placement   | Not applicable           |   |

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