

Subject card

| Subject name and code | Geodesy, PG_00049145 | | | | | | | | |
|---|---|------------------|---|------------|-----------|---|---------|-----|--|
| Field of study | Civil Engineering | | | | | | | | |
| Date of commencement of | October 2021 | Academic year of | | | 2022/2023 | | | | |
| studies | October 2021 | | Academic year of realisation of subject | | | 2022/2023 | | | |
| Education level | first-cycle studies | | Subject group | | | Optional subject group | | | |
| | | | oubject group | | | Subject group related to scientific research in the field of study | | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | | |
| Year of study | 2 | | Language of instruction | | | Polish | | | |
| Semester of study | 4 | | ECTS credits | | | 2.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Geodesy -> Faculty of Civil and Environmental Engineering | | | | | | | | |
| Name and surname | Subject supervisor dr inż. Tadeusz Widerski | | | | | | | | |
| of lecturer (lecturers) | Teachers | | dr inż. Tadeusz Widerski | | | | | | |
| | | | dr inż. Daria Filipiak-Kowszyk | | | | | | |
| | | | dr inż. Karolina Makowska-Jarosik | | | | | | |
| | | | dr inż. Karol Daliga | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| of instruction | Number of study hours | 15.0 | 15.0 | 15.0 | 0.0 | | 0.0 | 45 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity Participation in classes include plan | | | | | Self-study | | SUM | |
| | Number of study hours | 45 | | 1.0 | | 4.0 | | 50 | |
| Subject objectives | Preparing the student to perform simple geodetic works in the area of a construction investment. Presentation of measurement methods and geodetic networks. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_W03] knows the rules of preparing and circulation of geodetic documentation for realisation of investment; has knowledge about basics of geodetical service of road&construction investments; knows methods of plans projection as well as geodetical equipment and technology used in construction | | Student classifies methods of situational and height measurements. It uses Hausbrandt symbols in geodetic calculations. | | | [SW1] Assessment of factual knowledge | | | |
| | [K6_U15] is able to perform basic situational and elevetion measurements; can use geodetic instruments for altitude and situational measurement in a cinstruction site; can read geodetical maps and sketches | | determines the coordinates of the network points using the backward and forward notches. | | | [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment | | | |
| Subject contents | Methods of densification of geodetic points, designing and setting up open and closed traverses, stabilization of points, calculating the coordinates of points using the forward notches and the polar method. Hausbrandt symbols. Angle measurement methods. Trigonometric leveling. Tachymetry. Use of Total - Station in geodetic measurements. | | | | | | | | |
| Prerequisites and co-requisites | | | | | | | | | |

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| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
|--|--|--|-------------------------------|--|--|--|
| and criteria | | 100.0% | 40.0% | | | |
| | | 60.0% | 60.0% | | | |
| Recommended reading | Basic literature | odezja II, Stabil Kraków 2006. | | | | |
| | | 2 Michał Odlanicki- Poczobut Geodezja Podręcznik dla studiów inżynieryjno -budowlanych. PPWK. Warszawa 1996. | | | | |
| | | 3 Adam Żurowski Ćwiczenia z geodezji. Praca zbiorowa. PG. Gdańsk 1999. | | | | |
| | Supplementary literature | Jerzy Ząbek, Zdzisław Adamczewski Ćwiczenia z Geodezji I Część I i II PWN Warszawa 1974. Zygmunt Kurałowicz Geodezja - podstawowe obliczenia oraz wybrane ćwiczenia PG Gdańsk 2009. | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | |
| Example issues/ example questions/ tasks being completed | Calculation of the height of the leveling line points. Calculations of traverse points coordinates. Determination of the height of the hidden point. | | | | | |
| Work placement | Not applicable | | | | | |

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