

Subject card

| Subject name and code | Geodesy I, PG_00044795 | | | | | | | | |
|---|---|--|--|------------|--|--|---------|-----|--|
| Field of study | Geodesy and Cartography | | | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | | 2022/2023 | | | |
| Education level | first-cycle studies | | Subject group | | | Obligatory subject group in the field of study | | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | | |
| Year of study | 1 | | Language of instruction | | | Polish | | | |
| Semester of study | 1 | | ECTS credits | | | 7.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | exam | | | |
| Conducting unit | Department of Geodesy -> Faculty of Civil and Environmental Engineering | | | | | | | | |
| Name and surname | Subject supervisor | dr inż. Daria Filipiak-Kowszyk | | | | | | | |
| of lecturer (lecturers) | Teachers | | dr inż. Tadeusz Widerski | | | | | | |
| | | | dr inż. Karolina Makowska-Jarosik | | | | | | |
| | | | dr inż. Daria Filipiak-Kowszyk | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| of instruction | Number of study hours | 45.0 | 15.0 | 30.0 | 0.0 | | 0.0 | 90 | |
| | 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 | of study 90 | | 12.0 | | 73.0 | | 175 | |
| Subject objectives | The purpose of the subject is to convey student the knowledge in the field of basic geodetic measurements and calculations. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_W06] has a well knowledge and under geodesy concepts in main methods of obt about space togathe surveying and compound methods, which from are compatible with the legal status and from hand refer to measure the plane and cover modern geodetic instaking into account the first to the Earth and the gravity on the maner measurements and researce of the service of | The student possess the knowledge and uses the information concerning the performance of basic geodetic measurements and calculations. | | | [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge | | | | |
| | [K6_U13] is able to apply the principles of health and safety at work during the execution of geodetic works | | The student is able to apply the principles of safe surveying and usage, transfer and storage of surveying instruments. | | | [SU1] Assessment of task fulfilment | | | |
| | [K6_U11] is able to develop geodetic documentation and perform individually as well as in a group, field and field surveying surveys | | Student performs geodetic measurements Student prepares basic geodetic documentation regarding levelling traverse, polygon traverse and survey of details. | | | [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information | | | |

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| Cubicat contents | Lecture: | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| Subject contents | Lecture: | | | | | | | |
| | | | | | | | | |
| | 1 Direct levelling and trigonometri | t levelling and trigonometric levelling | | | | | | |
| | Direct levelling and trigonometric levelling Angle and distance measurements Topographic survey | | | | | | | |
| | | | | | | | | |
| | Principles of coordinate calculus Law of propagation of mean errors | | | | | | | |
| | | | | | | | | |
| | Classes | | | | | | | |
| | Classes: | | | | | | | |
| | 1. Measurement units conversion 2. Levelling traverse calculus 3. Horizontal angle calculus 4. Principles of coordinate calculus 5. Law of propagation of mean errors Laboratories: 1. Levelling traverse measurements 2. Horizontal angle measurements 3. Polygon traverse measurements 4. Survey of details | | | | | | | |
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| Prerequisites and co-requisites | | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | | |
| | Exam | 60.0% | 50.0% | | | | | |
| | Laboratory report | 100.0% | 10.0% | | | | | |
| | Test | 60.0% | 40.0% | | | | | |
| Recommended reading | Basic literature | 1. The act of law: Rozporządzenie Ministra Rozwoju z dnia 18 sierpnia 2020 r. w sprawie standardów technicznych wykonywania geodezyjnych pomiarów sytuacyjnych i wysokościowych oraz opracowywania i przekazywania wyników tych pomiarów do państwowego zasobu geodezyjnego i kartograficznego. (In Polish) 2. The act of law: Rozporządzenie Ministra Administracji i Cyfryzacji z dnia 14 lutego 2012r. w sprawie osnów geodezyjnych, grawimetrycznych i magnetycznych. (In Polish) 3. A. Jagielski, Geodesy I - theory and practice, Wyd. GEODPIS, Kraków, 2019 (In Polish) 4. A. Jagielski, Geodesy II, Wyd. GEODPIS, Kraków, 2020 (In Polish) | | | | | | |
| | Supplementary literature | Warszawskiej, Warszawa, 2012 (Ir | . J. Ząbek, Geodesy I , Wyd. Oficyna Wydawnicza Politechniki Varszawskiej, Warszawa, 2012 (In Polish) . W. Kosiński, Geodesy , Wyd. Naukowe PWN, Warszawa, 2021 (In olish) | | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | | | |
| | | Geodezja I (2022/2023) - Moodle ID: 21029 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=21029 | | | | | | |
| Example issues/ example questions/ tasks being completed | Explain "control network" conce Explain "survey of details" conce | 1. List the surfaces of reference used in surveying 2. Explain "control network" concept. 3. Explain "survey of details" concept. 4. Explain "direct levelling" concept. | | | | | | |
| Work placement | Not applicable | Not applicable | | | | | | |
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