STUDY SUBJECT DESCRIPTION

Subject code:	**AIN1Ž03**
Title in Lithuanian:	**GEODEZIJA-2**
Title in English:	**GEODESY-2**
Subject type:	**compulsory**
Subject volume:	**5 credits,** **134 hrs** (67 hrs for lectures; 67 hrs for individual work).
The subject is certified by:	**2025-08-31**

Study subject annotation. Students are provided with knowledge about design methods of geodetic networks, their connection with the points of state geodetic network, topographic plans of engineering network, their design methods, automatization, ways of making and updating plans. Students find out about measurements of settlement and inclination of buildings and constructions, methods and requirements for this kind of work. Students get acquainted with technical regulations of geodesy and cartography. Individually explore the legal framework. During practical classes students develop practical abilities while performing practical assignments. Prepared practical work presentation allows students to develop communication skills.

Study subject aim. The main subject aim is to form knowledge and abilities which would allow students to use and properly apply professional geodetic instruments, measurement technologies in preparing topographic, special purpose plans and monitoring buildings and constructions.

Student workload:

Form of classes	Lectures, hours	Practical, laboratory works, seminars, consultations, hours	Total contact work hours	Total independent work hours
Contack work	**16/8**	**38/19**	**67**	**67**
Remote work	**-**	**13/40**		

Topic:
Coordination of points by intersections.
Transformation of coordinates.
Topographic plans, their design methods and regulation.
Basic principles of engineering geodetic work.
Preparation of engineering network plans and regulation of work.
Settlement of buildings and constructions, their monitoring.
Monitoring of inclination and fluctuation of buildings and constructions.
Analysis of technical characteristics of geodetic instruments aimed at particular geodetic engineering work.

Study subject methods: *theory* **–**academic lecture, discussion; *practical work* – situation analysis and practical work; *self-study* – students finish practical assignments, individually perform analysis of technical characteristics of geodetic instruments aimed at particular geodetic engineering work. *consultations* – individually by the lecturer, by the email or in the Moodle system.

Methods and structure of students' achievement accumulative assessment. A ten-point cumulative criteria assessment system is applied

Assessment method Assessment part, %	Assessment part, %
Practical work	30
Individual work	20
Examination	50

Assessment criteria of study outcomes:

1. Acquisition of knowledge within study subject outcomes;
2. Quality of self-study work performance, formulation of findings and conclusions;
3. Ability to perform practical work;
4. Individual study of literature.

Coordinating teacher: lect. Giedrius Balevičius, Department of Real Estate Cadastre