

Department: **"Geological survey, prospecting and exploration of mineral deposits"**

| audience number | Name of the laboratory / lecture room | Required list of equipment (computers / projectors / laboratory equipment , etc.) | Actual equipment list (Computers / projectors / laboratory equipment , etc.) | Software List (if available) | Documentation (Certificates / licenses / acts , etc.) | Condition of Equipment/Instrument/Computers/Projectors , etc. . (Works, . . .) | Causes of malfunction, equipment failure. | Responsible officer (FULL NAME) | Total area, m ³ | Purpose of the premises (teaching / lecture / educational laboratory / scientific laboratory) | Purpose of equipment |
|-----------------|---|--|--|------------------------------|--|--|---|---------------------------------|----------------------------|---|----------------------|
| one | 2 | 3 | four | 5 | 6 | 7 | eight | 9 | ten | eleven | |
| 113 GUK | Educational mineralogical laboratory | Projector - 1 Screen - 1 Thermal fan - 2 | Computers - 3 pcs.; monoblock - 1 pc.; printer - 1 pc. | Microsoft office | - | Works | - | Tursunkhanov a A.T. | 141.9 sq.m. _ | Teaching laboratory | |
| 318 GUK | Educational audience them. K. Turysova on the methodology of search and exploration of MPI | | Epson projector - 1 pc., Computers - 3 pcs., Lenovo monoblock - 1 pc., Printers - 3 pcs., Laptop - 1 pc. | Microsoft office | - | Works | - | Arshamov Ya.K. | 75.2 sq.m _ | Lecture | |
| 322 GUK | Auditorium "Metallogeny and ore formations of Kazakhstan" named after academician Sh . E. Yessenova | | Computer - 1 pc.; projector - 1 pc. | Microsoft office | - | Works | - | Amantaev S.A. | 57.7 sq.m. _ | Lecture | |
| 324 GUK | Audience of geological maps named after Professor G.Ts. Medoeva | - | - | - | - | - | - | Amantaev S.A. | 37.4 sq.m. _ | Lecture | |

| | | | | | | | | | | | |
|-------------|--|--|--|----------------------|-----------------|-------|---|-------------------|-----------------|------------------------|--|
| 333 GUK | computer class | | Computers - 11 pcs. | MapInfo, Leapfrog | License keys | Works | - | Amantaev S.A. | 38.2 sq.m. _ | Teaching laboratory | |
| 416 GUK | Educational specialized laboratory for crystal optics and petrography | | Polarizing microscope with video system (computer, printer) - 1 pc.; educational polarizing microscope - 30 pcs.; laptop - 1 pc.; monoblock Lenovo - 1 pc.; deluxe computer - 1 pc.; printer - 1 pc.; projector Epson - 1 pc. | Microsoft office | - | Works | - | Baisalova A.O. | 56.7 sq.m. _ | Teaching laboratory | Scope: Training sessions and scientific work. Teaching microscope with video system : Magnification: 40x- 600x; Visual Attachment: Trinocular swivel 360°. Eyepieces: Wide field WR 10x/18 mm. Revolver . o Lens: 5 lenses. Student microscopes : Magnification: 40x- 600x; Eyepieces: Wide field WR 10x/18 mm. Revolver . o Lens: 5 lenses. |
| 420 GUK | Office of Structural Geology and Geological Mapping | | - | - | - | - | - | Amantaev A.O. | 38.2 sq.m. _ | Teaching laboratory | |
| 427 GUK | Cabinet of Mineral Geology | | Computers - 4 pcs.; multimedia projector - 1 pc. | Microsoft office | - | Works | - | Otarbaev K.T. | 82.6 sq.m. _ | Teaching laboratory | |
| 427a GUK | Specialized educational laboratory geology of deposits of non- metallic minerals | | - | - | - | - | - | Otarbaev K.T. | 34.4 sq.m. _ | Teaching laboratory | |

| | | | | | | | | | | | |
|-------------|--|-----------------------------|--|--|---------------------|-------|---|-----------------|--------------|---------------------|---|
| 505a GUK | computer class | | Monoblock Lenovo - 12 pcs.; computer - 1 pc.; scanner - 1 pc.; printer - 1 pc.; plotter - 1 pc.; projector - 1 pc.; laptop - 1 pc. | Microsoft Office, Corel Draw micromine | Educational license | Works | - | Asubayeva S.K. | 42.5 | Teaching laboratory | |
| 505b GUK | Laboratory of ore research methods | | Microscope polarizing aggregate working ore "Polam R-312" - 10 pcs. | - | - | Works | - | Asubayeva S.K. | 42.5 sq.m. _ | Teaching laboratory | Scope: Training sessions and scientific work. Specifications: Microscope magnification: Polam R-312 - from 35 to 1140; Lens magnification: 4.7;9;11;21;30;40;95. Magnification of eyepieces: "Polam R-312 microscope" - 6.3;10. |
| 510 GUK | Educational specialized laboratory for paleontology, stratigraphy and historical geology | Projector - 1 Screen - 1 | Monoblock Lenovo - 1 pc.; printer - 1 pc.; Lenovo laptop - 1 pc. | Microsoft Office | - | Works | - | Mustapaeva S.N. | 56.7 sq.m. _ | Teaching laboratory | |

Material and technical security of the department Geophysics

Department structure:

- Branch / s of the department: no .
- Educational laboratories and special rooms: 523,525,619,518, 535a
- Industry laboratories: no.
- Educational, research and production departments:
- Number of laboratories: four.

| Name of laboratories | General square | Place-location | Description of software and hardware |
|---|----------------|----------------|---|
| Kazakh-Canadian Scientific and Educational Center | | Audience 523 | <p>1. STUDIO RM is a full-featured software package for mineral reserves and resources estimation (10 licenses installed on 10 computers). Software product of Datamine company (England). Functionality - geostatistical analysis , assessment of reserves and resources, as well as modeling of ore bodies.</p> <p>2. SSMT-2000 program. (10 licenses installed on 10 computers). Phoenix software product Geophysics (Canada). Designed for editing magnetotelluric/audio magnetotelluric (MT-AMT) sounding data.</p> |
| computer class | | Audience 525 | <p>Geosoft Educational License About asis M ontaj (10 licenses installed on 10 computers). Geosoft software product (England). Provides the ability to create geophysical databases of grids and voxels (3-dimensional grids) for sharing, integrate data, process and interpret geological and geophysical data.</p> |
| computer class | | Audience 518 | <p>1. Geolog software G old (5 licenses on 5 computers). Software product of Paradigm company (Canada). A tool for advanced petrophysical and geological analysis, well data management, and robust data integration. Designed to determine the reservoir parameters, as well as a reasonable assessment of the profitability of potential oil and gas fields .</p> <p>1. Software ECHOS - NEXTGEN (5 licenses on 5 computers). Software product of Paradigm company (Canada). Leading 2D/3D seismic timing system. A flexible, scalable software package that allows you to solve tasks with high accuracy and within an acceptable time frame .</p> |
| computer class | | Audience 619 | <p>Schlumberger software products Petrel ECLIPSE PIPESIM OFM - 10 licenses on 10 computers</p> |

Laboratory equipment

| | | | | | |
|---------|---|------|---|---------------|-------------------------|
| 441 GUK | 1. Microscope Axio Scope A1 HAL 50 Carl Zeiss , HAL 100/ HBO , 5 xHD / DIC Austria complete with accessories with computer Factory. No. 3355000344 Inv. No. 2410-14002. For research work on the petrographic and mineralogical study of rocks, natural and man-made mineral formations in the projects of the GF, PCF and economic contract work with enterprises of any form of ownership in the field of geology and subsoil use. | 2012 | 1 | 14,821,203 | Geology and exploration |
| | 2. Geological and mineralogical laboratory analyzer (spectrometer, pH ionometer , magnet, moisture analysis), Europe Austria scales Plant. No. 243C127 Inv. No. 2410-14003. Analysis of the chemical composition of rock samples, natural and technogenic mineral formations for solving geological and technological problems of processing mineral raw materials in the projects of the Global Fund, PZF and economic contract works. | 2012 | 1 | 5 075 996 | Geology and exploration |
| | 3. Innovative mobile geol Mobilab Logic Laboratory XRF X -50 USA Factory. No. 201060 Inv. № 2410-13729 Analysis of the chemical composition of samples of rocks, natural and technogenic mineral formations for solving geological and technological problems of processing mineral raw materials in the projects of the GF, PZF and economic contract works. | 2012 | 1 | 14 500 000 | Geology and exploration |
| | 4. Mining and geological analyzer Delta premium USA Factory. No. 510215 Inv. No. 2410-13730. Analysis of the chemical composition of rock samples, natural and technogenic mineral formations for solving geological and technological problems of processing mineral raw materials in the projects of the Global Fund, PZF and economic contract works. | 2012 | 1 | 11 047 000 | Geology and exploration |
| | 5. Stereomicroscope according to the Gren scheme Austria Plant No. 000423 Inv. No. 2410-19200 For schlich analysis of crushed free-flowing natural and technogenic mineral formations in the projects of the State Fund, PZF and economic contract works. | 2013 | 1 | 2990 625 | Geology and exploration |

| | | | | | |
|-------|---|-------------|---|-----------|-------------------------|
| 46GMK | 1. Automatic high-speed precision cutting machine Europe Micracut 201 Factory. No. 20130017 Inv. No. 2410-13925. Production of polished demonstration exhibits, thin sections and polished sections from rock samples, natural and technogenic mineral formations for petrographic and mineralogical studies in the projects of the Global Fund, PZF and contract work. | 2012 | 1 | 8 037 584 | Geology and exploration |
| | 2. Programmable grinding machine Digiprep Europe 301 Factory. No. 20121110 Inv. No. 2410-13926. Production of polished demonstration exhibits, thin sections and polished sections from rock samples, natural and technogenic mineral formations for petrographic and mineralogical studies in the projects of the Global Fund, PZF and contract work. | 2012 | 1 | 5 804 676 | Geology and exploration |
| | 3. Basic model of the shaker SVU-2 Kazakhstan B/N Inv. No. 2410-54504. Production of crushed powders from natural and technogenic mineral formations for analytical studies in the projects of the Global Fund, PCF and economic contract work. | 2018 | 1 | 890 000 | Geology and exploration |
| | 4. Crusher DLShch80 150 Kazakhstan B/N Inv. No. 2410-54517. Crushing of rocks, natural and technogenic mineral formations for analytical studies in the projects of the Global Fund, PCF and economic contract work. | 2018 year | 1 | 1 200 000 | Geology and exploration |
| 39GMK | 1. Screening machine series AS 200301 Factory. No. 1217260427 Inv. No. 2410-53055. Germany, 2016. To determine the particle size distribution of crushed bulk natural and man-made mineral formations by classes of fractions in the projects of the GF, PTSF and economic contract works. | 2016 | 1 | 1 785 484 | Geology and exploration |
| | 2. Atomic absorption spectrum meter MGA- 915MD with PC. Russia Plant No. 685 Inv. No. 2410-54646. To determine the chemical composition of crushed bulk natural and man-made mineral formations in the projects of the Global Fund, PCF and economic contract works. | 2018 year . | 1 | 8 940 000 | Geology and exploration |

| | | | | | |
|-------|--|--|--|--|--|
| | | | | | |
| Total | | | | | |