Annotation to discipline

“Computer technology in mining”

Total work content of discipline learning is 3points of credit (108 hours).

Purpose of discipline.

generate students' knowledge of modern computer technology in mining;
develop the skills and ability to perform mathematical tasks by a computer image output calculations and objects on the monitor or projector to the conclusion of calculations on the printer and the like;
prepare students for further study of subjects related to transport and process systems at mines, practical training and further employment.

Tasks of discipline.

- understand the purpose and structure of modern computer technology of mining in the mine transport; teach students to build a database of characteristics freight transport in technological schemes for mining operations;
- use the method of choice in today's vehicles to support their operational parameters using advanced mathematical and computing packages;
- understand the objectives and structure of the dispatching service means of mathematical statistics.

Main didactic units (parts).

Industry sector mathematical package Mathcad. User interface;
Structure and modified formulas. Use of symbols, operators, and functions;
Word processing. Mathematical characters in the text;
Interaction own programs Mathcad with Microsoft Office Word, Excel and AutoCAD;
Calculation. Variables and functions, operators, control calculations;
Data types. Dimensional variables, arrays, input formats of numerical data;
Exact calculations and mathematical analysis;
Programming in the design of transport systems;
Matrix calculations;
Mathematical Statistics;
Data analysis and design calculations;
The structure of graphs and animations;
Registration of documents.