

Annotation to discipline “Basics of research”

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

Purpose of discipline. To shape students' knowledge about scientific principles on which the study is based, and selects the set of cognitive tools, methods and techniques of research in various fields of mining.

Tasks of discipline. To master the principles of accumulation of scientific facts, collection and processing of information, the identification of the properties of the object as a single system, to explore the modeling of technical systems, to develop the program and methods of research, analysis and synthesis of scientific papers by leading scientists who explored issues of the industry, summarizing the ideas of scientists who have studied the a similar problem to master the methodology of experimental research, the measurement procedure and process of research, preparation of summaries and reports.

Main didactic units (parts).

The current state and problems of research in the direction of "Mining".

Scientific methods of research.

Technology research.

The strategy and tactics of a scientific experiment.

Foundations of experimental research.

Basics of planning research.

Methods for enhancing the scientific and technical work.