

Annotation to discipline “Research methodology”

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

Purpose of discipline. To shape special skills and knowledge that will be enough for fulfillment of activities of innovative orientation, holder of a master’s degree who is able to fulfill professional job of research officer of academic research institution and mining engineer of mining company with research level of activities.

After studying the disciplines holder of a master’s degree has to be prepared for fulfillment of scientific-research and technical scientific jobs aiming to advance the existing and elaborate and implement new technological processes and equipment.

Tasks of discipline. To grasp the existing condition and problems of scientific research in the area of “Mining”. To become proficient in general scientific, theoretical and experimental methods and modern technologies of scientific research, methods of analysis of scientific literature, methods of study planning and development of strategy and tactics of scientific experiment, methods of processing, analysis and integration of received research data, methods of activation of scientific and technical work.

Main didactic units (parts).

Existing conditions and problems of scientific research in the area of “Mining”.

Main elements of theoretical methods of research.

General scientific methods of research.

Technology of scientific research.

Strategy and tactics of scientific experiment.

Basics of experimental research.

Basics of research planning.

Methods of activation of scientific and technical work.