

Annotation to discipline

“Open Pit Transport Complex”

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

Purpose of discipline. To shape the students’ knowledge about modern technologies, processes and different types of open pit transport. To give to prospective specialists in open pit transport theoretical knowledge and practical skills in organizing and exploitation of transport systems at open pit. To prepare students for further learning of disciplines connected with technology of open cut mining of mineral products and for operational procedures in concessions.

Tasks of discipline. To grasp the function, structure and different types of openpit transport and means of transportation, types and characteristics of open cut freight and cargo traffic; elements of system of different types of open-cut transport; technological and running qualities of carriage rolling stock and areas of appliance of different types of open-cut transport; main positions of tractive calculations; gadget and constructions of means of transportation; procedure of operational calculations of different types of open pit transport, special and fundamentally new types of open-cut transport, transportation facilities of secondary materials, human beings and equipment at open pit.

Main didactic units (parts):

Modern conditions and perspectives for development of open pit transport.

General information about transport systems of open pit.

Railway and transport systems of open pit.

Autotruck transport systems of open pit.

Conveying belt transport systems of open pit.

Combined transport systems of open pit.

Special and fundamentally new types of open-cut transport (general information).