

## **Annotation to discipline**

### **Cargo Movement and Stocking Processes in Mining**

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

**Purpose of discipline.** To shape the students' knowledge about modern technologies and processes of mine and surface transport; loading and storage equipment, technologies of loading, transportation, storage and assembling and dismantling at the surface of mining enterprises and in underground conditions, to prepare prospective specialists for fulfillment of official duties at the place of production.

**Tasks of discipline.** To grasp the function and structure mine transport and surface transport, loading and storage equipment, characteristic of cargo traffic and flow charts of transport, handling operations, assembling and dismantling and store handling during the construction, reconstruction and operation of mining enterprises; methodology for selecting modern mechanical equipment and substantiation of their operational data; to develop design skills and skills of appraisal of logistical level of flow charts of loading and transportation operations.

#### **Main didactic units (parts):**

Small-scale lifts: jacks, polyspasts, crabs, pulley blocks and chainblocks, elevators and dumpers.  
Cranes: column and portal jib type cranes, boom derrick jib cranes, mobile cranes, travelling and overhead cranes, console and monorail cranes, cable ways.

Manipulators.

Mobile loaders: bucket loaders, folk lift loaders.

Conveying belts: extensible belt conveyers, drag bar conveyers, crocodile, oscillating conveyers, conveying screws.

Elevators (latches).

Hydraulic transportation installations.

Pneumatic transportation installations.

Continuous running loading devices.

Storages of loose goods: bunkers, half bunkers, stockhouse bins, doors and blasting leads, outdoor storages, dumping sites.

Storages of piece loads and unit loads: open, close, storage terminals.

Storages of liquid, fluid and explosive loads.