

**National technical University “Kharkov polytechnic
institute”**

Faculty “Mechanical engineering”

**Department of “Lifting-and-shifting, construction, road-
working, land reclamation machines and equipments”**



Head of Department – Prof. Dr.-Ing. Grigorov
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The department was founded in 1929.

Research activities of department

- Modernization of cranes and automation of their work using microprocessor control.
- Dynamics cranes.
- Crane drive (electromechanical, hydrostatic, hydrodynamic, with frequency regulation).
Experimental analysis of load, such as drive, Progonny structure (bridge).
- Logistics.
- Microprocessor optimal control of a crane or a group of cranes.
- Energy savings in handling machines by applying a volume controlled drive and frequency drive.
- Expert inspection of cranes.



Areas of studying:

1. Lifting-and-transport, construction, road-making, land reclamation machines and equipments

2. Engineering of logistics systems



Employment perspectives:

- Logistics centers
- Engineering factories
- Companies who are designing logistics equipment, lifting and transport, building, road and reclamation machines
- Expert organizations



General academic disciplines for the students of specialty “Lifting-and-transport, construction, road-making, land reclamation machines and equipments” (bachelor’s level)



Lifting machines

Construction, road and reclamation machines

Logistic’s bases

Crane’s production technology

Elevators

Machines for earth moving

Research work

Operation and maintenance of machines



General academic disciplines for the students of specialty “Engineering of logistics systems” (bachelor’s level)

Computer technology in logistics

Computer-aided design of logistics systems

Logistic’s bases

Lifting and transport logistic’s systems

Continuous transportation machinery in logistic systems

Transportation logistic

Lifts logistic’s centers

Research work in logistic



General academic disciplines for the students of specialty “Lifting-and-transport, construction, road-making, land reclamation machines and equipments” (master’s level)

Dynamics of lifting equipment
Machinery of continuous transportation
Cable cranes and ropeways
Optimal control of cranes
Robots and manipulators
World class crane building
Methods of scientific research



Student's life



Our contacts:

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