

National Technical University "Kharkiv Polytechnic Institute" department for Transport engineering industry





Department of Electrical transport and Construction of Diesel locomotives







1892

Electric transport

electric locomotives, electric trains, subway trains, the power supply systems

Locomotives and locomotive economy

locomotives, diesel locomotives, carriages

Qualification after graduation:

Bachelor of electricity, electrical and electromechanical Master of electricity, electrical and electromechanical Bachelor of railway transport

Master of railway transport







Direction of educating

Preparation of students on a specialty "Electric transport" is conducted, oriented not only on the traditional types of electric transport for railways but also on perspective high-speed wheeled, and also high-speed magley. Рама тележки







Direction of educating

Graduating students of specialty "Locomotives and locomotive economy" are able to design diesel engines, carriages and special railway technique, and also their components: a power equipment is combustion engines, electric machines and electric drive; mechanical part, control system by motion of both main and industrial railway transport. They can also carry out scientific and marketing research, operate railway rolling stock.











Prospects of employment

The graduating students of department are highly sought not only in the field of railway transport (locomotive and rail car factories, manufacturing industry parts, repair factories and depots, subways, their power supply system)...











Prospects of employment

...but also in those industrial sectors which have a technological similarity with the objects of railways (energy, automotive, agricultural machinery, industrial and urban transport, electric power facilities and system of power supply of enterprises, cities and villages).









Basic special disciplines for a level "bachelor"

Information technologies in transport; Basics of electric power and power supply; The theory of locomotive traction; The power electronic converter and microprocessor technology; The mechanical part of the rolling stock; Traction Drive; Independent power systems; Control systems; Technology of production of railway transport; Maintenance and repair of rail transport; Simulation of railway facilities; Modelling of processes of rail transport.

Basic special disciplines for a level "master"

Electrical equipment of rolling stock and traction networks; Microprocessor based devices; Computer technologies in transport; Prospective rail transport; Social and environmental aspects of the operation of rail transport; Computer-aided design of the rolling stock; Automatic control systems; The design of the railway transport.





Victor Ivanovich Omelyanenko

doctor of technical sciences, professor, Head of Department

Department of Electrical transport and Construction of Diesel locomotives

Staff of department

Valery Domanski doctor of technical sciences, professor. **Vyacheslav Masliev** doctor of technical sciences, professor. **Boris Lyubarskii** doctor of technical sciences, professor. **Gennady Krivyakin** Ph.D., associate professor. **Dmytro lakunin** Ph.D., associate professor. Lilia Overyanova Ph.D., associate professor. **Eugene Ryabov** Ph.D., senior researcher. **Elena Afanasyeva** Ph.D., senior lecturer. **Bagish Yeritsyan** Ph.D., associate professor. **Alexander Demidov** senior lecturer.

