

National technical University “Kharkov polytechnic institute”

Faculty “Transport Engineering”

Department of “Vehicle and tractor engineering”



Areas of studying



Vehicle and vehicle service

Covers the skills and knowledge required to undertake leadership and management roles within the in all sectors vehicle service industry.

It is suitable for entry into senior management roles in trucking companies and petrol stations networks

Automobiles and tractors

This qualification reflects the role of individuals who perform a broad range of tasks in the field of vehicle mechanical engineering, retail, service and repair industry.



Department laboratory



Employment perspectives:

- Authorized service stations for motor or special vehicles
- Departments of manufactories that deal with vehicle systems and parts engineering
- Trucking companies
- Petrol and gas stations networks



General academic disciplines for the students of our department (bachelor's level)

Mechanics of Materials Advanced theory of elasticity with applications to problems of contact stresses, stress concentrations etc. Includes apply advanced knowledge and skills to solve problems encountered in vehicle design practice.

Vehicle dynamics Kinematics of particles, rectilinear and curvilinear motion, kinematics of rigid bodies in the plane. Impulse and momentum, mechanism motion in the plane.



General academic disciplines for the students of our department (bachelor's level)

Automotive Servicing Technology practical skills in areas such as inspection and servicing of batteries, suspension systems, tires, transmissions, drive assemblies, and braking and cooling systems.

Vehicle Electrical & Electronics Diagnosis basic and advanced techniques of using a digital vehicle diagnosis.

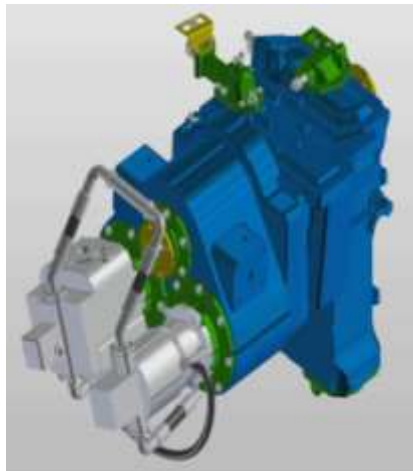


General academic disciplines for the students of our department (master's level)

Vehicle Mechatronics Systems Modelling and analysis of electro-mechanical systems, including sensors, actuators, smart/functional materials, structures. Fundamentals of digital control and systems applied to vehicle electro-mechanical systems.

Engineering Design Advanced methods in mechanical engineering design. Conceptual and detailed design in projects involving machine elements, engineering sciences and engineering mechanics using computer-aided tools (CAD, CAM, CAE)

Transportation Planning Covers the conventional transportation planning modelling process from data collection through to evaluation.



Our contacts:

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