Degree Programme: Transport Machinery and Technology
ECTS code: TMT

Qualification awarded: MEng

Education forms: Full-time

Term of education: 1 year – for MEng after BEng

Final examination: development and public defense of a diploma project

Admission requirements: according to the university regulations

Access to further studies: Successfully graduated MEng students are able to continue their education in PhD degree.

Programme importance: Graduates of this specialty are among the most sought-after mechanical engineers, as the knowledge and skills they acquire qualify them to achieve excellent acceptance and career opportunities in public and private companies, enterprises, institutes, and organizations in the fields of design, manufacturing, testing, diagnostics, repair, and maintenance of transportation machinery, automotive transport, energy, agricultural mechanization, construction and mining, education, etc. They are also in demand in companies involved in the organization, management, and operation of transport machinery.

General characteristics of the education: The education in the Master's qualification level provides in-depth fundamental and specialized training in the field of transport machinery and systems, significantly enhancing students' knowledge in the areas of design, manufacturing, testing, and technical operation of transport machinery. The program includes subjects that are key to engineering practice, such as structural strength, automatic transmissions in automotive machinery, modelling and testing of transport machinery, suspension and comfort in automotive machinery, control systems and modelling of internal combustion engine processes, etc.

Educational and professional goals: Graduates of the "Transport Machinery and Technologies" specialty are prepared to design, develop, maintain, and repair transport equipment (internal combustion engines, automotive technology). They are also able to develop technologies and manage the production, repair, servicing, and technical operation of transport machinery. Additionally, they can design the technological components and facilities for manufacturing, repair, and service enterprises related to transport machinery. Graduates are qualified to conduct scientific research in the field of transport machinery and technologies, engage in teaching activities related to transport equipment, and carry out commercial, consultancy, and other activities related to transport machinery and technologies.

Employment of the graduates: Graduates of the “Transport Machinery and Technology” specialty can find professional employment in state and private enterprises, companies, and institutes that design, manufacture, or operate transport machinery; in production and repair companies within the automotive industry involved in the manufacture or repair of passenger and commercial vehicles, buses, electric and motor trucks, tractors, agricultural and road construction machinery; in companies dealing with automotive, locomotive, marine, aircraft, and stationary internal combustion engines; and in all other sectors where ground transport machinery is used. Graduates can also find opportunities in transport companies and enterprises engaged in road, railway, and combined transportation, along with their associated companies, depots, and service centres for the maintenance and repair of transport machinery; as designers in design-engineering departments and institutes; and in management positions within companies and government agencies in the transport sector, etc. Master’s engineers can further find employment as researchers in transport machinery and technologies research laboratories.