Road Vehicles Engineering – Bachelor degree program

The aim of the Bachelor's degree program "Road Vehicles Engineering" is to form engineers who are capable to conceive, design and manufacture parts or whole vehicles in specialized facilities.

The increasing mobility demands of the population and of the economy lead to new car solutions, increasing performances (power, mileage), ecological exploitation (fuel consumption decrease, alternative fuels, hydrogen, hybrid propulsion) and safety and comfort. All these aspects are treated with a high qualified staff, in modern laboratories and practical preparations.

During the 4 years of study, on 8 semesters, of 14 weeks each semester for the training and development process, the students are prepared for research or industry activities, and their diploma is manly based on a specific practical topic in automotive industry. The curriculum contains basic subjects Engineering (Calculus, Algebra and Geometry, Physics, Chemistry, Special Mathematics), disciplines of general technical skills (Descriptive Geometry and Technical Drawing, Materials Science, Materials Technology, Graphics Technical Computer, Fundamentals of Mechanics, Fundamentals of Electrical and Electronic Engineering), specialized engineering disciplines (Mechanics, Vibrations, Strength of Materials, Mechanisms, Machines Parts, Tolerances and Dimensional Control, Fluid Mechanics, Thermodynamics), subjects provided during the first 4-5 semesters . In recent quarters of the curriculum are provided appropriate disciplines such as Motor Vehicles, Automotive Engineering, Vehicle Dynamics, Testing and Diagnosis of Road Vehicles, Bodies and Structures, Cars and Environment, Automotive Manufacturing Technologies, a.o. Complementary courses are provided in principles of management, marketing and communication, foreign languages.

The Bachelor's degree program "Road Vehicles Engineering" is not a double-degree diploma program.