

ROMANIA
MINISTRY OF NATIONAL DEFENCE
MILITARY TECHNICAL ACADEMY
“FERDINAND I”



FACULTY B
Faculty of Aircraft and Military Vehicles



**Department of Military Vehicles and Transport
Engineering (B1)**

Programme of study - 1st cycle - License ARMORED VEHICLES AUTOMOBILES AND TRACTORS

1st Year:

Fundamental Disciplines: *Mathematical Analysis; Algebra, Analytic and Differential Geometry; Techniques and Computer Programming Languages; Physics; Chemistry; Technical Drawing and Engineering Graphics; Computer-Aided Graphics*

Disciplines in the Field of Study: *Material Science; Technology of Materials; Mechanics and Mechanical Vibrations I; Electrotechnics; Electrotechnics and Electromagnetic Devices; Statistic for Mechanical Engineering; Internship I*

Complementary and Military Disciplines: *Communication, Public Relations and Negotiation Techniques; English; French; Politology; Psychology and Sociology; Topography; History; Sport*



2nd Year:

Fundamental Disciplines: *Special Mathematics; Numerical Methods in Vehicle Engineering; General Management*

Disciplines in the Field of Study: *Mechanics and Mechanical Vibrations II; Strength of Materials; Mechanisms; Machinery Parts; Fluid Mechanics and Hydraulics; Non-conventional Technology and Mechanical Treatments; Technical Measurements, Tolerance and Adjustments; Thermotechniques and Thermo-Machines; Basic of Military Automobiles Industry; Internship II*

Complementary and Military Disciplines: *English; French; Sport*



3rd Year:

Fundamental Disciplines: *Basic Logistics*

Disciplines in the Field of Study: *Vehicle Dynamics; Armored Vehicles, Automobiles and Tractors Mechanics; Automatic Applied to Military Automobiles; Software for Vehicle Engineering; Electronics for Vehicle Engineering; Management of Military Technical and Economic Activities*

Specialty Disciplines: *Engines with Internal Ignition; Computing and Construction of Wheeled Military Vehicles; Computing and Construction of Tracked Vehicles I; Special Destination Vehicles I; Technology of Vehicles Manufacturing and Repairing I; Electric Equipments*

Complementary and Military Disciplines: *Economy and Accountancy; English; French; Sport*



4th Year:

Disciplines in the Field of Study: *Quality and Reliability of Vehicles; Military Tactics*

Specialty Disciplines: *Maintenance of Vehicles; Diagnostic and Service Stations for Vehicles; Special Equipments for Armored Vehicles; Special Vehicles; Technology of Vehicles Manufacturing and Repairing II; Computing and Construction of Tracked Vehicles II; Special Destination Vehicles II; Hydraulic, Pneumatic and Electric Vehicle Acting Systems; Element Finite Methods for Vehicle Engineering; Alternative Energetically Systems; Logistics of Military Vehicles; Testing and Evaluation of Military Vehicles; Internship IV*

Complementary and Military Disciplines: *Geography; Management of Projects; Sport*