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Military Technical Institute: 60-year long tradition

MILITARY Technical Institute (VTI) is the first and the largest military scientific-research institution in Serbia with a 60-year long tradition, which deals with research and development of new weaponry and military equipment as well as with upgrade of the existing inventory for all services of the Serbian Army. The VTI has developed and introduced into the Serbian Army around 1300 items of weaponry and military equipment.

Military Technical Institute - Belgrade, SERBIA

The Military Technical Institute was founded on 3 November 1948, and the status of a scientific-research institution was gained in 1976.

The Military Technical Institute has 23 engineers with PhD and 68 engineers with a Master's degree or specialization in technology fields relevant for the development of weaponry and military equipment. At the VTI there are 15 researchers with scientific ranks, and 10 researchers of the Institute are engaged at faculties and military academies in the country. The Military Technical Institute has successful cooperation with engineering faculties and participates in conducting postgraduate and doctoral studies.

Activities

The basic tasks of the Military Technical Institute are:

- research in specific military technical fields which serve as the basis for programs of development of new weapons and military equipment,
- development of new state-of-the-art weapon systems and military equipment,
- upgrade of the existing weapon systems and military equipment,
- providing expert aid to military industry companies,
- providing services to the civilian sector, and
- participation in realization of tasks and programs in the area of military scientific-technical cooperation with foreign partners.

For a successful performance of these tasks, the overall scientific research activity of the VTI encompasses a large number of applied research programs in all technical fields.

Specialized laboratories

The VTI has at its disposal 30 larger laboratories out of which some are unique in the country, and some exceed national needs and have international significance. These are laboratories:

- for Experimental Aerodynamics,
- for Experimental Modal Analysis, Signal Analysis and Balancing,
- for Experimental Strength,
- for Special Armament Measurements,
- for Solid Fuel Rocket Engine Testing,
- Explosive Materials Testing Laboratory,
- Hardware In The Loop (HIL) and Telemetry Measurements Laboratory,
- for Inertial Sensors,
- for NBC Protection,
- for Analysis of Toxic and Hazardous Chemicals,
- Electromagnetic Compatibility (EMC) Laboratory,
- for Optics and Optoelectronics,
- TV Guidance Laboratory,
- for Fuels and Lubricants Testing,
- Vehicle Subsystems Laboratory,
- Metrological Laboratory,
- for Applied Spectrophotometry,
- for Polymeric and Corrosion Protective Materials,
- for Metal Materials,
- for Hydro-acoustics,
- for Physical-technical Measurements,
- for Devices in Environmental Conditions Testing,
- for Nuclear Radiometry and Dosimetry,
- Prototype Laboratory.

References

The Military Technical Institute has developed about 75% of all weaponry and military equipment of the national Army. At the same time, more than 90% of national defence industry products have come from the design offices and laboratories of the VTI. Some of the most important conquered items are:

- modern main battle tank with the fire control system,
- armored personnel carrier,
- short, medium and long-range antitank weapons (launchers and missiles),
- air-defence systems (guns and missiles),
- self-propelled multitube rocket launchers,
- training and combat aircraft and aircraft equipment,
- several types of unguided AA rockets,
- several types of naval mines
- command and communication systems,
- engineering support items,
- NBC protection devices,
- training and teaching aids.

Research and development of new weaponry have resulted in conquering the production of a range of state-of-the-art materials and widely applicable technologies. Cooperation has been established with other scientific-research institutions and universities in the country and abroad.

Owing to its high-quality research and development facilities and the acquired level of knowledge and experience, the VTI has successfully developed certain items of weaponry and military equipment for the needs of other armies, participated in design and realization of joint development projects and significantly contributed to the transfer of military technologies to other countries by market principles.

As a support to general and applied research work and development of weapons and military equipment, the Military Technical Institute develops and uses its own scientific-technical information system.

The VTI has been publishing the scientific-professional periodical entitled "Scientific Technical Review" in English language, with abstracts in Serbian, Russian and French language. The VTI also publishes the professional publications monography type "Scientific Technical Information" and "Information 'pon Weaponry".

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60 godina Vojnotehničkog instituta

Шестьдесят лет Военнотехнического института

Soixante ans de l'Institut militaire technique

Symbol Military Technical Institute

Certificate No.2649-1/15/08-051

Realisation weapons and military equipment

56 mm assault rifle M-21

76 mm mountain gun, M48-B1

155 mm ST gun howitzer “NORA-B52”

Antitank missile system “BUMBAR”

Self-propelled multi-launch rocket system 262 mm M87 “ORKAN”

Off-road vehicle 0.75 4x4 “TARA”

Modernized MBT M-84AB1

Combat aircraft J-22 “ORAO”

Trainer/attack aircraft G-4M “SUPER GALEB”

Direction finder

Military Technical Institute laboratory

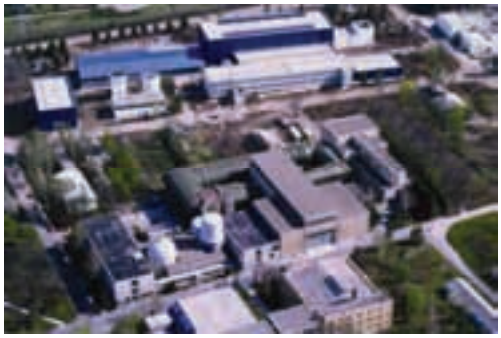

СЕРТИФИКАТ О АКРЕДИТАЦИЈИ

Accreditation Certificate


ПОТВРДА О ПРИЗНАЊУ ИСПИТНЕ ИНСТИТУЦИЈЕ

ВОЈНОТЕХНИЧКИ ИНСТИТУТ

Accreditation Certificate


The T-38 trisonic and T-35 subsonic wind tunnel


Engine test stands with 1900 kW power rate


Vacuum chamber


Fuselage static test


HIL and telemetry measurements laboratory of the guided missile