

16.03.02 High-Tech Plasma and Power Plants

Laser Thermonuclear Fusion

Program objective

training students with universal and subject-specific competencies in applied nuclear and plasma physics and applications.

Curriculum research areas

- R&D and design of high-power laser systems and facilities, their application for research and technological purposes, remote and precision measurements, diagnostics of various media, including plasma;
- physics of separation of isotope and molecular mixtures, physics of fast-flowing processes, condensed matter physics
- medical physics and biophysics
- nuclear and radiation safety
- control systems and automated control of nuclear physics facilities.

Career opportunities

Graduates of this program apply their knowledge in physics, computer modeling of plasma processes and plasma physics. This knowledge is vital for employment in leading Russian and foreign research centers and companies that specialize in laser and plasma industrial technologies.