

14.05.04 Electronics and Automation of Physical Facilities

Charged Particle Accelerators for Radiation Technologies

Program objective

to obtain a higher professional education that allows to apply universal and subject-specific competencies for contribution to modern nuclear and radiation physics, nuclear materials and technologies.

Curriculum research areas

- modern electronic circuit design
- electronic systems of nuclear and physical facilities
- automated control systems of nuclear reactors and nuclear facilities
- radiation and the effects of ionizing radiation on humans and the environment
- electronics and automatics of physical plants
- mathematical models for theoretical and experimental studies of propagation and interaction of radiation with objects of animate and inanimate nature
- ecological environmental monitoring

safety of nuclear materials and facilities.