14.03.02 Nuclear Physics and Engineering

Radiation Technologies in Life Sciences

The program is established to train human resources for the non-energetic application of nuclear and radiation technologies. Its curriculum covers a number of interconnected topics, including:

- dosimetry and radiation protection;
- radiation facilities and nuclear research reactors;
- medical radiology;
- biological and medical effects of radiation in living matter;
- radiation applications in agriculture and food production;
- radiation chemistry;
- radiation monitoring;
- radioactive waste management, etc.

Program graduates have comprehensive knowledge in fundamental physics and engineering sciences. Academic and practical training form skills and expertise in basic engineering with an emphasis on three main specialized domains: radiation protection, radiation, and nuclear technologies in agricultural science and healthcare.