**ANNOTATION**

of the postgraduate educational program

**Training course: 03.06.01 Physics and Astronomy**

**Program Name: 03.06.01 Physics and Astronomy**

**Objectives**: The aim of the postgraduate educational program is the preparation of scientific and scientific-pedagogical personnel, capable of innovation in the field of physics and related areas of science and higher education.

**Termsoffull time education** are 4 years.

**Graduate departments**: Department of Reactor Materials Science and Radiation Safety.

**The area of professional activity**: the postgraduate program "Physics and Astronomy" includes the solution of problems requiring thea pplication of fundamental knowledge in physics and astronomy; instruments and methods of experimental physics; theoretical physics; condensed matter physics; plasmaphysics; electrophysics, electrophysical installations; thermal physics and theoretical heat; physics of atom icnucleus and elementary particles; physics of beams of charged particles and the accelerating technics; laser physics; high-energyphysics.

**Objects of professional activity**: the objects of professional activityofgraduateswhohavemasteredtheprogramofpostgraduatestudyarephysicalsystemsofvarioussizesandlevelsoftheorganization, theprocessesoftheirfunctioning, physical, engineeringand physical, biophysical, physicaland chemical, physicalandmedicaland environmental technology, physicalexaminationandmonitoring innovative technology of experimental and theoretical research in the field of physics and astronomy.

**Features of the curriculum**: the educational program for graduate students is developed in accordance with the requirements of the educational standard of higher education, independently established by the National Research Nuclear University MEPhI for the training profile03.06.01 Physics and astronomy.

The educational program shows the logical sequence of cycles development and the curriculum sections (disciplines, practices), ensuring the for mation of competencies. The total complexity of disciplines, modules, practices in creditunits, aswellas the irgeneral and auditorialhoursare considered in the program. Curriculum of training graduate students in the training profile 03.06.01 Physics and Astronomy and profile 01.04.07 Physics of condensed state.

**The list of enterprises for practical training and employmen to fgraduates**: Practice is held in subdivisions of the National Research Nuclear University MEPhI. For people with disabilities the choice of places of practice should be taken into account according to the health status and availability requirements.

**Employment of graduates**: Research Institute of Atomic Reactors "RIAR" and Rosatom State Corporation enterprises.