**ABSTRACT OF BACHELOR’S EDUCATIONAL PROGRAM   
 12.03.01 INSTRUMENT**-**MAKING ENGINEERING**

**1. Name of educational program**Training direction – **12.03.01 Instrument-making engineering**  
Profile of training – none  
Qualification (degree): **bachelor**  
  
**2. Brief description of the program**

**Objective:** training of highly qualified bachelors in the field of design and calculation of devices and means for nuclear engineering enterprises and other high-tech industries.  
**Department:** Instrument- making engineering, design and technology of electronic means.   
**Duration of training:** 4 years (full-time).  
The educational program consists of 240 credits. One credit equals to 36 academic hours.

**3. The scope and object characteristics of graduates’ professional activity**  
  
**Graduates’ professional activity area:**– research, development and maintenance of devices for receiving, registering and processing information about the environmental, technical and biological objects;  
– production of devices and systems for receiving, recording and processing information about the environmental, technical and biological objects, materials they are made of.

**Graduates’ professional activity objects:**– electro-mechanical, magnetic, electromagnetic, optical, thermal, acoustic and acoustic-optic methods;  
– devices, systems and element base in instrument-making;  
– software and information-measuring technologies in instrument-making;  
– production technology of materials, elements, devices and systems;  
– teamwork;  
– planning of project and design-engineering activity and monitoring its realization;  
– technical equipment and workplace environment;  
– technical control realization and participation in management of instrument-making products.  
  
**4. Basic organization**Training is realized for the Federal state unitary enterprise "Instrument-making plant" in the framework of the program "personnel training".

**5. Brief description of the curriculum**  
The curriculum is developed in accordance with Educational Standard NRNU MEPhI for the training direction 12.03.01 “Instrument-making engineering” (qualification "bachelor"). Special attention is paid to the study of the following subjects: applied mechanics, materials, structural material technology, circuitry of measuring devices, computer-aided design and engineering, technology of instrument-making engineering.  
  
**6. Practice**  
– practical training is held for 2 weeks after the 2nd semester in the laboratories of the TTI NRNU MEPhI and is aimed on forming of primary skills;  
– industrial trainings are held for 2 weeks after the 4th and the 6th semesters at the FSUE "Instrument-making plant" and are aimed on obtaining and mastering of professional skills in real industrial conditions;

– undergraduate training is held for 4 weeks after the 8th semester at the FSUE "Instrument-making plant" and is aimed on studying, gathering and analyzing available documents and information concerning the subject of a graduate’s final qualification work (bachelor's thesis).

Начало формы

Конец формы