**ABSTRACT OF BACHELOR’S EDUCATIONAL PROGRAM  
 11.03.03 DESIGNING AND TECHNOLOGY OF ELECTRONIC MEANS**

**1. Name of educational program**  
Training direction – **11.03.03 Designing and technology of electronic means**Profile of training – **"Designing and technology of radio electronic means"**  
Qualification (degree): **bachelor**

**2. Brief description of the program**

**Objective:** training of highly qualified bachelors in the field of design and technology of radio electronic 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, design and technology of electronic means, in accordance with the purposes of operation, reliability requirements, design, operating conditions, marketing;  
– a set of objects of professional activity in science and industry focused on the electronic tools development proceeding from the needs of the labour market.

**Graduates’ professional activity objects:**  
– radio-electronic means;  
– computing means;  
– methods and tools for configuration and testing, quality control and maintenance of electronic means;  
– methods of designing electronic means;  
– technological processes of production;  
– technology materials and technological equipment;  
– information, Metrology, diagnostic and management tools for ensuring technological systems of electronic means.

**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 direction 11.03.03 "Designing and technology of electronic means" (qualification "bachelor"). Special attention is paid to the study of the following subjects: basics of designing electronic means, circuit and systems of electronic means, production technology of electronic means, quality management of electronic means.

**6. Practice**  
– practical trainings are held for 2 weeks after the 2d and the 4th semesters in the laboratories of the TTI NRNU MEPhI and are aimed on forming of primary skills of quality soldering, cable assembling, functional joints assembling;  
– industrial training is held for 2 weeks after the 6th semester at the FSUE "Instrument-making plant" and is aimed for obtaining and mastering of professional skills in real industrial conditions;

– undergraduate training is held for 6 weeks after 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).