

11.03.03

**Electronic Instrumentation Design
and Technology**

Degree: *bachelor*

Duration of training: *4 years*

Form of training: *intramural*

Language of instruction: *Russian*

Accreditation: *state*

Program description:

You will receive training in the field of design of perspective element base of micro- and nanoelectronics, microelectromechanical systems; experience of mathematical modeling and design of micro- and nanosystems for various purposes, development of technological routes; and skills of development of super-large integrated circuits.

Basic courses:

- Methods of Mathematical Modeling;
- Information Technology of Design of Electronic Means;
- Mathematical bases of discrete technique

Special courses:

- Micro- and Nanoelectronics;
- Design of Electronic Means using VHDL/Verilog Language;
- Circuit Engineering of Electronic Means;
- Fundamentals of Electronic Means Design;
- Microelectromechanical Systems

Research areas:

design of element base of micro- and nanoelectronics, development of methods and means of micro- and nanosystem elements modeling

Graduates of the program work as engineers in companies in the field of design of very large scale integration, devices of microelectromechanical systems.

Contacts of the program director:

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