

Designing and Technology of Electronic Tools

South Ural State University

Degree or qualification is awarded: **Bachelor's degree**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **151 800 rubles**

Programme webpage at the university website:

<https://www.susu.ru/en/education/bachelors-specialist-degree-programs/infocommunication-technologies-and-communication>

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Students learn:

- modern systems, networks, technologies and standards for mobile communications;
- switching systems in communication networks;
- radio transmissions, radio receivers;
- methods of generating signals for transmission in mobile communication systems;
- ways to ensure the security of information transmission in communication systems, noise immunity;
- operational and service maintenance of information and communication devices and systems.

Students get a great theoretical and practical experience in methods, algorithms and devices for discrete signal processing, as well as methods for their implementation. This allows graduates to immediately engage in operational and production work at relevant communication enterprises.

Specializations within this programme

Design and Technology of Electronic Equipment

Graduates receive serious training in the areas of:

- Design and technology of radio-electronic equipment;
- Application of modern information technologies (CAD-CAM-CAE) in the design of the radio-electronic equipment.

Students study:

- Modern technologies of computer-aided design and preproduction; software and hardware information technology;
- Network and communication technologies in project activities and electronic document management systems in project activities;
- Mathematical and informational support of project activities.

Graduates have all the necessary skills to design and organize the production of radio-electronic equipment for military and civilian purposes in industrial enterprises, in design and research organizations of the corresponding field.