Area of study:

11.04.02 Information and Communication Technologies and Systems

Program:

Next Generation Information and Communication Systems and Technology

Degree: master

Program length and study mode: 2 years,

intramural

Language: Russian

Credits: 120

Start date: September 1, 2020

Location: Taganrog

Entry requirements: basic knowledge of

information technology and electronics

Program overview:

Training in development of modern infocommunication systems and next generation networks, including 5G networks.

Experience: computer modeling, design and optimization of radio engineering and communication systems and devices.

Skills: automated measurements using personal and industrial computers; programming of embedded systems and microcontroller devices.

Program structure:

Module 1. Basic courses - 25 credits;

Module 2. Signal transmission and processing

systems and devices - 27 credits;

Module 3. Embedded systems - 22 credits;

Module 4. Next generation networks - 28

credits;

Module 5. Pre-graduation practical training and graduation thesis defense - 18 credits.

Typical units of study may include:

- Foreign language;
- Research methods and commercialization of scientific results;
- Mathematical modeling of devices and systems;
- Security in information networks;
- CAD in electronics

Special courses:

• Modern methods and measuring instruments

Careers:

engineers, researchers in companies in the field of telecommunication equipment development, infocommunication systems design, information technology, IT management, network administration and radio electronics

Get in touch:

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in radio engineering and communications;

- Microcontroller devices and systems on a chip;
- Modern algorithms for processing spatialtemporal signals in communication systems;
- Communication networks;
- Optical and wired communications tools, switching systems and devices.

Research areas:

Methods, algorithms, software and hardware for processing spatial-temporal signals in information and communication systems;
Methods and algorithms for processing two-dimensional signals in image reconstruction;
Methods and algorithms of digital signal processing for solving problems of image detection and recognition.