Area of study:

**11.03.02 Infocommunication technologies and communication systems**

Degree: bachelor
Program length and study mode: 4 years, full-time education
Language: Russian
Credits: 240
Start date: 1st of September 2020
Location: Russia, Rostov-on-Don, Zorge str.5, Faculty of Physics, SFedU

**Entry requirements:**

Detailed information on admission to this this educational program is posted on the website of the SFedU in the section "Admission", subsection "Admission Rules", and is regulated by the order of the SFedU № 1745 dated by 27th of September 2019.

**Program overview:**

The educational program is aimed at in-depth training in the field of formation, storage, transmission, reception, processing and protection of digital one-dimensional and multidimensional signals as applied to the actual problems of radiocommunication for the exchange of information at a distance using various network structures.

**Program structure:**

The program consists of 3 units. Unit 1 includes obligatory disciplines and the disciplines formed by the participants of educational relations.

Unit 2 contains two types of practical trainings: academic training and work experience internship. The latter includes industrial R&D internship, pre-graduation practical training and research work.

Unit 3 is the State Final Examination. It includes state exam and graduate qualification work.

**Typical units of study may include:**

Physics. Informatics. Electronics. Electromagnetic fields and waves. General theory of communication. Computing and information technology. Basic principles of infocommunication system and network design. Mathematical analysis. Analytic geometry and linear algebra. Discrete mathematics. Foreign language. History. Philosophy.

**Research areas:**

— communication networks and switching systems;

**Careers:**

— developers of modern systems of telecommunication, radiocommunication, radiolocation, bearing and other radioequipment
— network designers, liaison engineers, IT-department specialists at the mobile communications, IT and engineering companies both in our country and abroad.

**Get in touch:**

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| | — multichannel telecommunication systems;<br>— telecommunication optical systems and networks;<br>— radiocommunication systems and devices;<br>— satellite and radiorelay communication systems and devices;<br>— intelligent networks and communication systems;<br>— data transmission systems and devices;<br>— the main methods of construction of information communication networks for various purposes;<br>— line and radiocommunication systems;<br>— basic methods of construction the data processing and storage systems | |