

# Fiber-optic Systems and Networks of Information Transmission and Processing

Immanuel Kant Baltic Federal University

Degree or qualification is awarded: **Master**

Language of study: **Russian, English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **1 850 USD per year**

Programme webpage at the university website: <https://www.kantiana.ru/physics/index.php>

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## The Program enables a student to:

- efficiently perform professional activities in the sphere of designing, production, operation and maintenance of different kinds of fiber-optic communication lines used in modern telecommunication systems;
- perform research and development as well as design and development activities in the area of processes and technology of fiber-optic communication lines, and physical processes ensuring transmission of optical signals in different media.

The area of professional activity of graduates includes a set of innovative technologies, tools, techniques and methods of human activity aimed at creating conditions for processing, storage and exchange of information at a distance using a variety of network structures; a set of technical and hardware tools, techniques and methods of processing, storage and exchange of information via wire, radio, optical systems and environments; management and marketing in the information communications; technical fields, including a set of hardware and technical means and methods to ensure smooth, reliable and high-quality work of info-communication equipment in order to meet all the requirements of industry standard technical documentation: the main methods of construction of info-communication networks for different purposes; wired and wireless communication systems; basic methods of construction of systems of data processing and storage; methods of construction and installation of a variety of info-communication facilities; methods of maintenance of modern communication facilities; methods and means of protection against denial of service in the info-communication networks; methods of effective management in the field of maintenance and services; methods and techniques of control and measurement of the main technical parameters of info-communication equipment; calibration of measuring instruments as well as control and measurement systems used in info-communication facilities; management and marketing in information communications.

## Specializations within this programme