

## **11.04.04 Electronics and nanoelectronics**

### **Radio Engineering and Communication Devices**

**Partner university:** Tashkent State Technical University named after Islam Karimov (The Republic of Uzbekistan)

**Abstract:** Students study the basic types of devices, their models and methods of description in radio circuits and devices. Methods for analyzing DC and AC circuits in the time and frequency domains, structures and principles of operation of the main systems of radio automatics are being studied. An obligatory component of training is computer training. Within the framework of this task, students study a package of programs focused on solving scientific and design problems of radio electronics.

#### **Curriculum features:**

- Digital Signal Processing;
- Modern methods of physical experimental analysis;
- Principles of organic opto-and nanoelectronics;

#### **Career opportunities:**

- create technical and design documentation for the development of high-tech devices;
- create instructions for the operation of technical devices;
- participate in the testing process of devices and analyze the causes of defects.

#### **Program Supervisors:**

Nikolai I.Kargin – Director of Institute for nanoengineering in electronics, spintronics and photonics, vice-rector, Doctor of Technical Sciences, Professor.

Tashmukhametova Dilnoza - Doctor of Physical and Mathematical Sciences, Professor