

**Division:** *School of Electronic Engineering and Computer Science*

**Academic programme:** *12.03.01 Instrumentation Engineering, Digital Technologies in Instrumentation Engineering*

**Mode of study:** *full-time*

**Programme length:** *4 years*

**Programme level:** *Bachelor's degree*

**Language of instruction:** *Russian*

**Programme description:**

- *The knowledge and skills obtained by students allow them to build their future careers in the following fields:*
- *Mathematical modelling of the instrumentation engineering processes and objects and studying them with the use of standard packages of computer-aided design and self-developed software;*
- *Taking measurements and studying various objects according to the set techniques;*
- *Analysing, calculating, designing and engineering of standard systems, devices, parts and units at the circuitry engineering and element levels and in compliance with technical assignment;*
- *Equipment adjusting and tuning, setting up of the software used for development, production and adjustment of instrumentation engineering*
- *The programme is unique as it offers to master the classical methods of design and engineering of instrumentation and systems with the use of computer-aided design systems.*

**Main programme-specific classes:**

- Elements of Instrumentation
- Engineering of Measuring Devices
- Accuracy of Measuring Devices
- Computer Synthesis of Instrumentation
- Pressure Sensors and Calibrators
- Level Instruments
- Measuring Systems Sensors

**Programme manager:** *Dmitriy A. Katsai, Candidate of Sciences (Engineering), Associate Professor of the Department of Information-measuring Equipment*