Area of study:

15.03.06 Mechatronics and Robotics

Program

Computer Technologies in Automation and Control Systems

Degree: bachelor
Program length and study mode: intramural
Language: Russian
Credits: 240
Start date: 2020
Location: Taganrog

Entry requirements: complete secondary education

Program overview:

Program structure:

Unit 1: Courses (modules); Basic part; Variable part;
Unit 2: Practical training (including R&D); Basic part; Variable part;
Unit 3: State final examination; Basic part.

Typical units of study may include:

- Foreign language
- History
- Philosophy
- Health and safety
- Health culture
- Economic and legal module
- Higher mathematics
- Physics
- Electrical engineering and electromagnetic compatibility of control elements and systems in robotics and mechatronics
- Fundamentals of mechatronics and robotics
- Automatic control theory
- Microprocessor technology in mechatronics and robotics
- Electromechanical systems and actuators of mechatronic and robotic devices
- Theoretical mechanics and details of mechatronic modules, robots and their design
- Electronic devices of mechatronic and robotic systems
- Computer science in robotics

Research areas:

- Aerial robotics
- Marine robotics
- Ground robotics
- Industrial robotics
- Intelligent control and navigation systems

Careers:

Russian and international enterprises (including R&D departments), organizations and institutions in the field of robotics, control systems, navigation and communication

Get in touch:

- *Artem E. Kulchenko*
- *Candidate of Technical Sciences (05.02.05 "Robots, mechatronics and robotic systems»)*
- *+7(904)349-70-78*
- *kulchenko@sfedu.ru*
- *WoS: Q-8934-2017, Scopus ID: 8318920700*