

By studying the program, mechatronics and robotics, you will learn to design and exploit new modern equipment, acquire quality and useful practical knowledge in the field of electronics, programming and design. Upon finishing this program, you will become a **unique specialist** able to solve a wide range of engineering problems. In this regard, there is high demand of graduates of this specialty.

The majority of students are employed before completing the program and obtaining a certificate!

Students of the department participate every year in large scale Russian exhibitions in Moscow, St. Petersburg and Skolkovo among others. We send our students to international conferences in Russia and beyond, organise internships in the best universities and student exchange programs.



A student of the department demonstrates the new exoskeleton to the minister of education and the governor of the Kursk region.

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We will be glad to answer all your questions

More detailed information on the program, about our projects, the work of the department, the teachers and students, photos, videos and more can be found on the **official** websites of the department:

www.mechatronics.kursk.ru

www.swsu.ru/structura/up/ftd/tmim

www.lab.swsu.ru

vk.com/lab.swsu



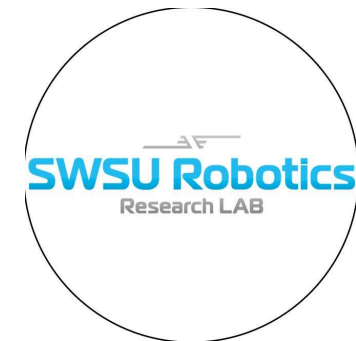
ЮГО-ЗАПАДНЫЙ
ГОСУДАРСТВЕННЫЙ
УНИВЕРСИТЕТ

FACULTY OF FUNDAMENTAL SCIENCES

DEPARTMENT OF MECHANICS,
MECHATRONICS AND ROBOTICS

*We invite you to receive higher education
under the new bachelor's and master's
educational program*

**15.03.06 (15.04.06)
MECHATRONICS AND
ROBOTICS**





Professional Skills:

design and make quad copters, convertiplanes, wheeled robots, exoskeletons and underwater robots.

❑ Students have access to 3D printing and equipment for metal laser cutting and processing. You will be able to make a prototype based on your own designs.

❑ We will teach you how to program microcontrollers (from Arduino to professional electronics), create software packages using high-level programming languages.

❑ We will also teach you to design personal electronic schemes, which can be tested in a specialized laboratory.

❑ We help students obtain patents for their own original work.

❑ Our students participate in useful and necessary projects, creating commercially demanded equipment for improving the quality of life for people with limited physical abilities and prevention of disasters.



Our students participated in the creation of one of the first Russian exoskeletons for people with musculoskeletal system disorders - ExoLite

Peculiarities of Studying Mechatronics and Robotics:

❑ Individual teaching approach;

❑ Avoiding narrow specialization, the desire to give the student a **comprehensive engineering education**;

❑ Participation in projects involving real technical systems, good managerial training, acquisition of practical skills of promotion to the market of scientific and technical products;

❑ The opportunity to continue practical training and education under the **international program**, "Master of Engineering" зарубежных университетов (TU Ilmenau, TU Konstanz и TU Dortmund – Germany, TU Cassino– Italy, Budapest TU – Hungary, Korean University of Technology) – Korea.

❑ Participation in international and Russian \scholarship programs:, DAAD, Siemens, Bosch, Leonard Euler, M. Lomonosov and others.

❑ A significant number of students of our specialty receive advanced scholarships from the academic council of the university and the President and the government of the Russian Federation.



Our department participates in the APPLE program

Several Russian universities participated in the APPLE program aimed at modernizing the educational process and improving the quality of education. The “Mechatronics and Robotics” program is included in this program..

We can:

- Have regular contacts and meetings with leading experts from universities in Germany and other EU countries.
- Equip the training laboratory with modern equipment.
- To increase the value of diplomas of our graduates by complying with both Russian and European standards of education quality.



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Specialist in the field of mechatronics and robotics is a comprehensively educated engineer of the future!