

Mathematics

National Research Tomsk State University

Degree or qualification is awarded: **Bachelor**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **no**

Price: **183 300 Rub per year**

Programme webpage at the university website: <http://math.tsu.ru/node/1533>

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The aim of this program is to provide students with knowledge and skills for solving various problems in the field of mechanics. This specialization combines different methods including experiments and mathematic modeling with the use of computer technologies.

Students of this bachelor program will develop their analytical skills and their abilities to solve cases related to various spheres of life. In addition, they will address issues of economics, engineering and management and find creative solutions with the help of software and computer devices. The future bachelors will gain important skills of structuring information, its volume and input.

The graduates of this specialization will have a chance to further explore and research the actual problems of mechanics and physical processes, such as hypersonic flow around bodies, the entry of bodies into dense layers of the atmosphere and thermal protection, flows of rheological complex fluids, MHD flows, fluid, gas and plasma mechanics in technical installations, application of measurement methods for physical high-temperature processes, natural and man-made disasters. After graduating from this program students can choose, for instance, a career path connected to analytics in various spheres of economics.

As for the curriculum, it encompasses courses like general course of continuum mechanics, special sections of hydromechanics, aeromechanics, gas dynamics, the problems of dynamic interaction of liquid, solid and gaseous fluids, as well as math and computer modeling, computational mechanics, numerical methods for solving problems in fluid and gases mechanics. And, of course, there are special laboratories and hands-on experiments provided for students in order for them to get a deeper understanding of a subject.

Specializations within this programme